

Figure 1

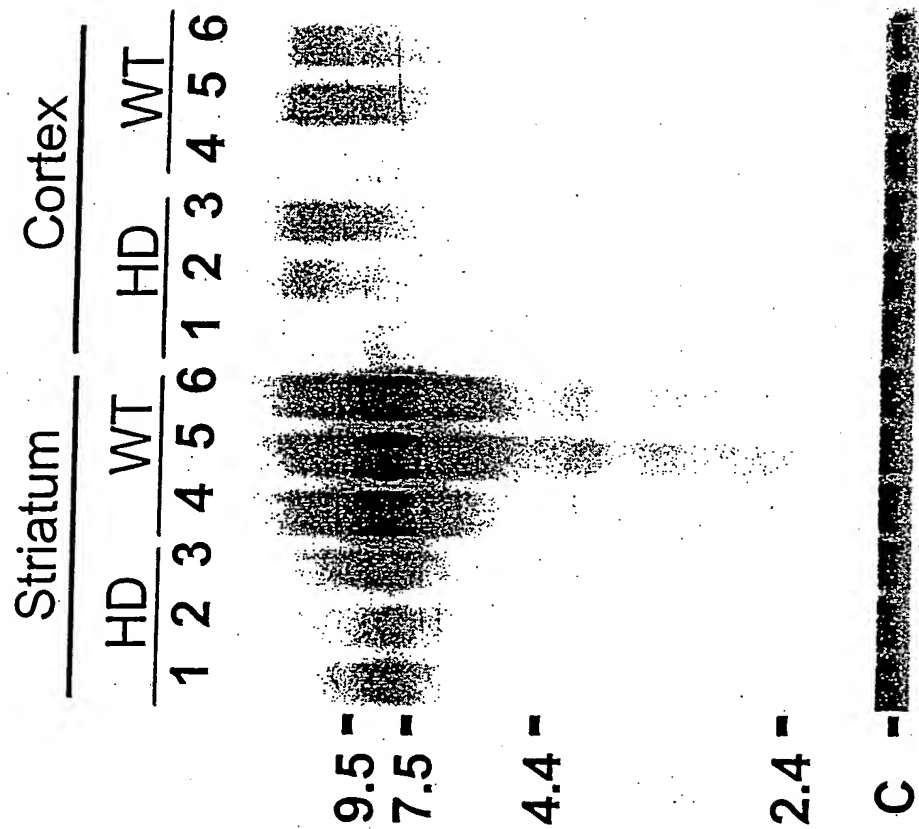


Figure 2

Figure 3

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5'          11          21          31          41
1  TGTATGGGAATAGTGTTCATATGATCTGTTGTCTGGAGTATATGCTAC
   ACATACCCTTATCACAAAGGTATACTAGACAAACAGACCTCATATACGATG
                                     probe 1
5'          61          71          81          91
51 ATGTTTCATTTACTGTACAAAAACCCAGTGCAGCTGATGATGCAAAGCAGT
   TACAAGTAAA TGACATGTTTTTGGGTCACGTCGACTACTACGTTTCGTCA

5'          11          21          31          41
101 CTCTCTCTGTGTACAGTGCCCCACCTATTTAAAAATCACGTACTTGCCCA
    GAGAGAGACA CATGTCACGGGGTGGATAAA TTTT TAGTGCATGAACGGGT

5'          61          71          81          91
151 GAACACTGTGAAACACTTAA CATAAGAACAACGCAGCGTCTGGATTCTT
    CTTGTGACACTTTGTGAATTGTATTCTTGT TTGCGTCGCAGACCTAAGAA

5'          11 probe 2 21          31          41
201 TCCAAGGAGAGCAGCTTTCTCCACAGGAACACAGTAACAAAAGAGTCCG
    AGGTTCCCTCTCGTCGAAAGAGGTGTCCTTG TGTCATTGTTTTCTCCAGGC

5'          61          71          81          91
251 CCGCCATCCACACCCAGCCAAGACACCTCAGAGGCCATAGGGACAACCTC
    GGCGGTAGGTGTGGGTCGGTTCTGTGGAGTCTCCGGTATCCTGTTGGAG

5'          11          21          31          41
301 CTTGCTGGCCAACACCTGCTGGAGCAGGGG CACAGGTCCCAGCAACTGAT
    GAACGACCGGTTGTGGACGACCTCGTCCCCGTGTCCAGGGTCGTTGACTA

5'          61          71          81          91
351 CCTCAGTGGA TGGGTCTGCAGCCAAAGCCTTAATGGGCTCTCTTTTGAAG
    GGAGTCACCTACCCAGACGT CGGTTTCGGAATTACCCGAGAGAAAACCTC

5'          11          21          31          41
401 GGGAAAGAAAGAATTTCAAGCTTATGATATCCAATATTATTATAGTTGAT
    CCCTTTCTTTCTTAAAGTTCGAATACTATAGGTTATAATAATATCAACTA

5'          61          71          81          91
451 GAGTTAGTAAATTCCAAAAA
    CTCAATCATT TAAGGTTTTTTTTT

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Figure 4

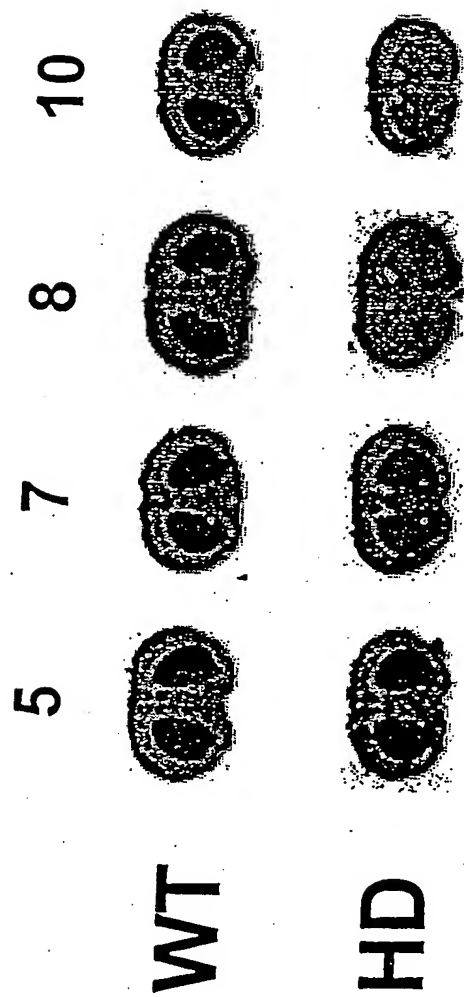


Figure 5



Figure 6

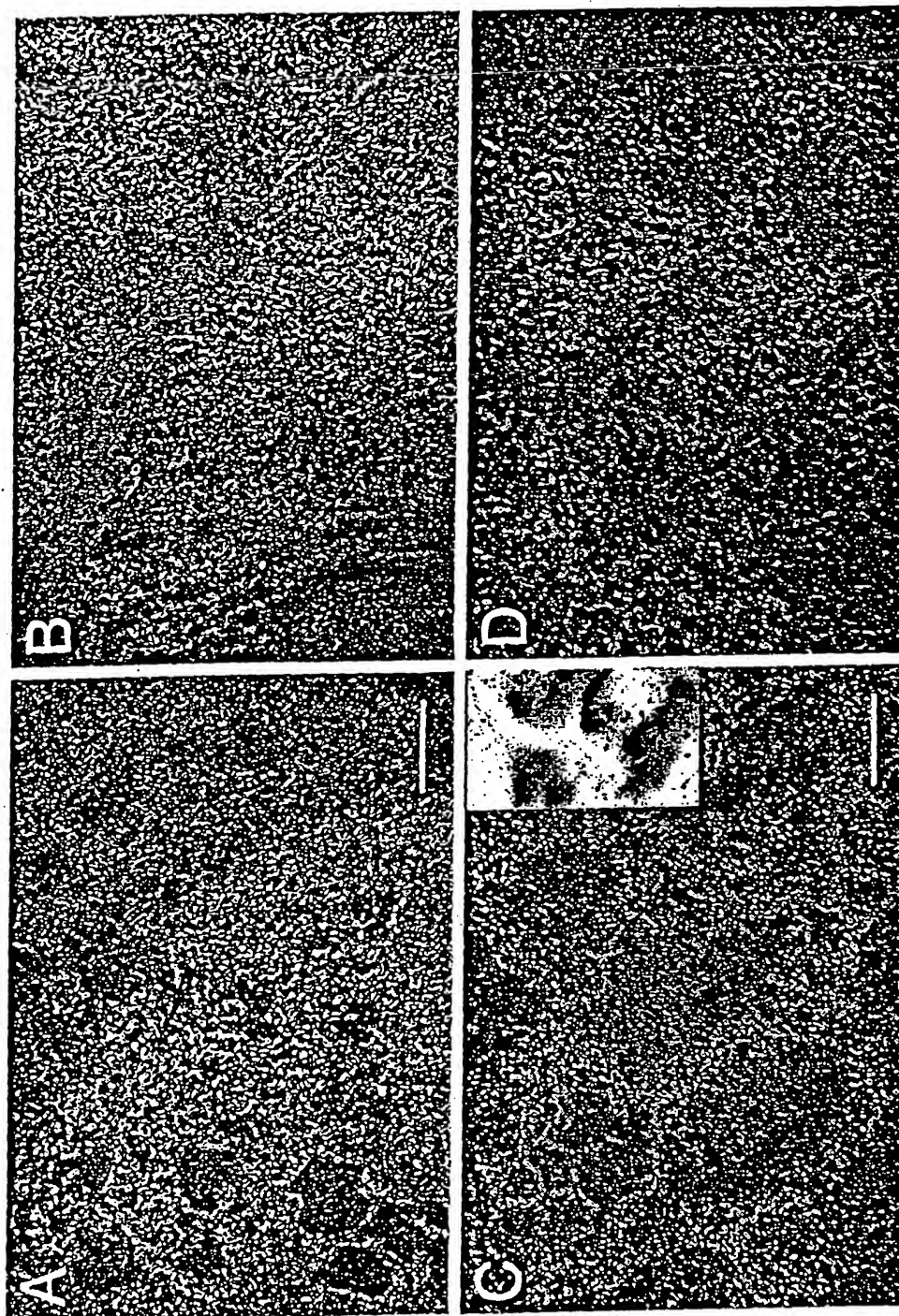


Figure 7

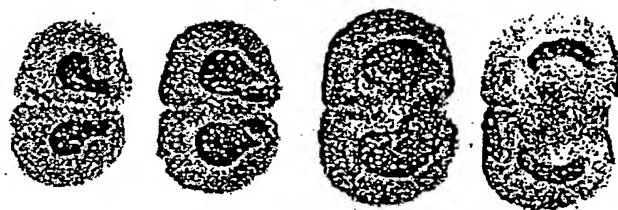


Figure 8



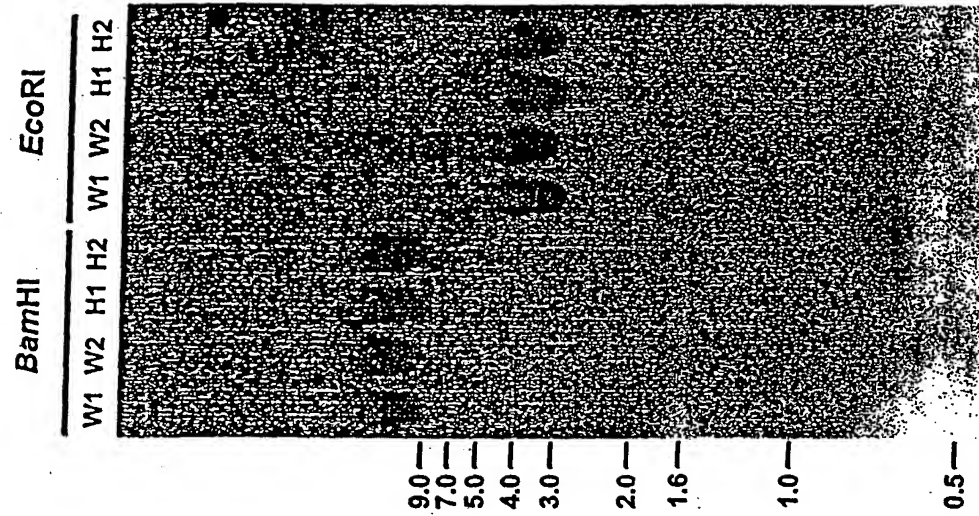


Figure 9

Figure 10

5' 11 21 31 41  
 1 CACTGAAGCTGGTCCACGTCATATAACAGGTGACACTGGCTGCAGCAAAA  
 GTGACTTCGACCAAGGTGCAGATATTTGTCCACTGTGACCGACGTCGTTTT

5' 61 71 81 91  
 51 AGCCATTTCGATCCACACAAATTGATCTTCTATCATCTTGGAATCTGAATT  
 TCGGTAAGCTAGGTGTGTTTAACTAGAAGATAGTAGAACCTTAGACTTAA

5' 11 21 31 41  
 101 GCAGGGAGGAGCAGTATGTAAGACGACCGTTTAATTCAGGCATTCCGAAG  
 CGTCCCTCCTCGTCATACATTCTGCTGGCAAATTAAGTCCGTAAGGCTTC

5' 61 71 81 91  
 151 GCATGAGCGCATGGATTCTGTACCAAGCGTATAAAAGGACCCTGGCATT  
 CGTACTCGCGTACCTAAGACAGTGGTTCGCATATTTTCCTGGGACCGTAA

5' 11 21 31 41  
 201 GGGAAACCTATGACGGACTGTTTTGCTGTAGAAGTAGGGATTTTACAGA  
 CCCTTTGGATACTGCCTGACAAAAACGACATCTTCATCCCTAAAATGTCT

5' 61 71 81 91  
 251 AGTCTCCTTGAATTTGCCCTGCCTGGGGCAGTTTTGCAGAGGAACCTGCC  
 TCAGAGGAACCTAAACGGGACGGACCCCGTCAAACGTCTCCTTGGACGG

5' 11 21 31 41  
 301 AGAGATTTATTGGCTGGTCACTCTTGTGAAATAGTATCATGTGAGAAA  
 TCTCTAAATAACCGACCAGTCAGAGAACACTTTATCATAGTACACTCTTT

5' 61 71 81 91  
 351 CAGTTTGTAGAAAAAACTATACCTGGGAAGACCTTTGCAACATTGTTCC  
 GTCAAACATCTTTTTTTGATATGGACCCTTCTGGAAACGTTGTAACAAGG

5' 11 21 31 41  
 401 TTCCATGGGC CAAGACTCAGTTAGGAGGCATAAATCTGCCCGGAATAAAC  
 AAGGTACCCGGTTCTGAGTCAATCCTCCGTATTTAGACGGGCCTTATTTG

5' 61 71 81 91  
 451 TAGGCCAGGATACAGCCATGTTTAGTTAATAATTTGGTTTTAGAAATTCAC  
 ATCCGGTCCTATGTCGGTACAAATCAATTATAAACCAAAATCTTAAGTG

5' 11 21 31 41  
 501 ACAGGCAGGATTGGTTTTTTTTGTGTCTTGGCAAGTGGAGCATATTTAACA  
 TGTCCGTCCTAACCAAAAAACACAGAACC GTTCACCTCGTATAAATTGT

5' 61 71 81 91  
 551 TACAGGCATGGGAATCCTGCCTCTTAGCTTTTCCACCCTCTTGTCTCAC  
 ATGTCCGTACCCTTAGGACGGAGAATCGAAAAGGGTGGGAGAACAGAGTG

5' 11 21 31 41  
 601 CAAGTTTTTTCTCTCCAAAGGTTTCCAGGAATTTCTCATTAATGGCTGAT  
 GTTCAAAAAAGAGAGGTTTCAAAGGTCCTTAAAGAGTAATTACCGACTA

# Figure 10 continued

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5'          61          71          81          91
651 GCAAACCTTAGTGAATAATAATGAATATAAA CAATGCTCACCTCACCAAAA
    CGTTTGAATCACTTATTATTACTTATATTTGTTACGAGTGAGTGGTTTTT

5'          11          21          31          41
701 TTATATTATTGTCAGTCATTGTTGATAACA CAAATTTTATCGCAATGGTT
    AATATAATAAACGTCAGTAAACACTATTGTGTTTAAATAGCGTTACCAA

5'          61          71          81          91
751 ATTATTTAATTTGTGGCCACACACTGTGGT TATCTTTTGTGTGGTTGTT
    TAATAAATTAAACACCGGTGTGTGACACCAATAGAAAACAACACCAACAA

5'          11          21          31          41
801 TCTGAGAAAA TGTTCCTTGGA TATGTAAGTG CCAATACCAGTGTGAAGTAT
    AGACTCTTTTACAAGAACCTATACATTCACGGTTATGGTCACACTTCATA

5'          61          71          81          91
851 TGATCCCGGG CAGCAAAATA CAGCCTAAGG TTTGTAAACATCAATTCTAT
    ACTAGGGCCCGTCGTTTTATGTCGGATTCCAACATTTGTAGTTAAGATA

5'          11          21          31          41
901 CTCAGTTCATCAGAGGGCCTGAGAAGCTGCGGGGCAGTGTAAGTAAAGT
    GAGTCAAGTAGTCTCCCGGACTCTTCGACGCCCCGTCACATTTTCATTTC

5'          61          71          81          91
951 ATGCTGGGCTGGTGGTGGTCAGCCTCCCGC CTGAAGAGTGACCAGTGCTG
    TACGACCCGACCCACCAGTCGGAGGGCGGACTTCTCACTGGTCACGAC

5'          11          21          31          41
1001 GCCCGACGGATCGCTGAGATATTCTCCCAT AATGGCAAAAAAATAGGCAG
    CGGGCTGCCTAGCGACTCTATAAGAGGGTATTACCGTTTTTTTATCCGTC

5'          61          71          81          91
1051 TTTGATGTGACCTGTTTAGTGTGGCTCTCCTCTTTTGAGCATGTGTTAGC
    AACTACACTGGACAAATCA CACCGAGAGGAGAAAAC TCGTACACAATCG

5'          11          21          31          41
1101 ATTTTTATTTTATACTCATC CAGTGAAC TCTGCTCTTCCAAGTGTGTTCA
    TAAAAATAAAATATGAGTAGGTCAC TTGAGACGAGAAGGTTACACAAGT

5'          61          71          81          91
1151 TGTATGTGCTAGATATATTAGCACAGCCTG CCTTCTGCTGCACAACGCCT
    ACATACACGATCTATATAATCGTGTGCGGACGGAAGACGACGTGTTGCGGA

5'          11          21          31          41
1201 TAGAGACCCGCGCCTTTCAATGAGCTTAGCTTGTGCTCTGTTTCTGCTCTC
    ATCTCTGGGC CGGAAAGTTA CTCGAATCGAACACGAGACAAAGACGAGAG

5'          61          71          81          91
1251 TTAGGTCTAAACTATGGTGT CAGTTTTAATAGAACAAAAGTATGCATCTT
    AATCCAGATTGATACCACAGTCAAATTA TCTTGTTTTTCATACGTAGAA

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# Figure 10 continued

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5'          11          21          31          41
1301 GCCTTGGCTTGAGCCTTTTCGTTTTCAATGCTGACTTCTCCCTTTCTCT
    CGGAACCGAACTCGGAAAAGCAAAGTTACGACTGAAGAGGGGAAGAGA

5'          61          71          81          91
1351 CCTGTGCTCACCTTACCTTTCCAGAGTGTAAAGGGACAACCTTTTAAGGAGG
    GGACACGAGTGGAATGGAAAGGTCTCACATTCCTGTGAAAATTCCTCC

5'          11          21          31          41
1401 CGTGTCCCTGGTAGGGGCATCCCTGTTTACAGGTGCCTGTCATCACCCC
    GCACAGGGACCATCCCCGTAGGGACAAGTGGTCCACGGACAGTAGTGGGG

5'          61          71          81          91
1451 ACTTGACTGACATCTACCCTGGTGACTATGGGTTCCTCTTGTTGTAGGG
    TGAAGTACTGTAGATGGGACCACTGATACCAAGGAGAAACAACATCCC

5'          11          21          31          41
1501 AACGGTGGCTCCAGGTGGAGGCATCAATCTGTTGGGTTCTGGTTCCCGGC
    TTGCCACCGAGGTCCACCTCCGTAGTTAGACAACCCAAGACCAAGGGCCG

5'          61          71          81          91
1551 TGCCTTTGGTTTTTGAAAGTCTCTTCTCTGTATATTCCTACCCTGCATTTG
    ACGGAAACCAAACTTTCAGAGAAGAGACATATAAGGATGGGACGTAAAC

5'          11          21          31          41
1601 CTTTGTGTGGTGCTGATGCTGTGCGCAGTAGGATTCTTGATGACTCTCC
    GAAACACACCACGACTACGACACGCGTCATCCTAAGAACCTACTGAGAGG

5'          61          71          81          91
1651 ATCAGTCACAGACTCCCCCTGTTGCAAAGTGTGAGGCTGACTCGACAGTC
    TAGTCAGTGTCTGAGGGGGACAACGTTTCAAGTCCGACTGAGCTGTCAG

5'          11          21          31          41
1701 ACCGTAAAATCTGAGTCAGTCACACACAGGCTGTCAGCCACGGCTTCCAC
    TGGCATTTTAGACTCAGTCAGTGTGTGTCCGACAGTCGGTGCCGAAGGTG

5'          61          71          81          91
1751 TTGCATGGCTATTCTATTTTACACGTGAGTTTCTGTTGCTGGCTGGCTG
    AACGTACCGATAAGATAAAAGTGTGCACTCAAAGACAACGACCGACCGAC

5'          11          21          31          41
1801 ACTGGCATTATCTATGCTAAAGTTGAAATCAGGAGTGCCAGAGAGCCCA
    TGACCGTAATAGATACGATTCACTTTAGTCCTCACGGGTGCTCTCGGGT

5'          61          71          81          91
1851 TCATTCTCACTGTCTTTGAAACAAAGCTGTACGGTTTGATCGATGAACGT
    AGTAAGAGTGACAGAACTTTGTTTCGACATGCCAAACTAGCTACTTGCA

5'          11          21          31          41
1901 ATTTAAAGCATTTTCATGCAATGACAAAGTGCTCAGTAGTGGGAAGGCAGGC
    TAAATTTTCGTAAAGTACGTTACTGTTTCACGAGTCATCACCTTCCGTCGG

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# Figure 10 continued

5' 61 71 81 91  
 1951 TGTGACCAGTCTGCCTGCTCCTTACTATAATTGTGAGGATTTGTTACTGG  
 AACTGGTTCAGACGGACGAGGAATGATATTAACTCCTAAACAATGACC

5' 11 21 31 41  
 2001 AACAGTACATGGAGGCCTGACCTTGTGGGGGCACAGGGTGAACCTTAGC  
 TTGTCATGTACCTCCGACTGGAACACCCC CGTGTCCCACCTTGAATCG

5' 61 71 81 91  
 2051 TGAATATAGTGTGTGTCTCAAGAGGAAGTCAGGGTACTAGCTCAGTGCTC  
 ACTTATATCACACAGAGTTCTCCTTCAGTCCCATGATCGAGTCACGAG

5' 11 21 31 41  
 2101 AATCTCCAGGTACTATATATACATTTGCCCCGTTTTATCTCTAATGTGAAA  
 TTAGAGGTCCATGATATATATGTAAACGGGCAAAATAGAGATTACACTTT

5' 61 71 81 91  
 2151 TAAATCCCCAAACACTTGTTTATCGTGTAGCGTACCTAAAAGACTATTCT  
 ATTTAGGGGT TTGTGAACAAATAGCACATCGCATGGATTTTCTGATAAGA

5' 11 21 31 41  
 2201 ATTATGGGTGTCCCCACTTTCTTGGTTTGGTTCACCCCGATCCCCGGTCT  
 TAATACCCACAGGGGTGAAAGAACCAAACAGTGGGGCTAGGGGGCCAGA

5' 61 71 81 91  
 2251 TCTGCTGTATCTAGAACAGTGACTATAAATGATGTATGGGAATAGTGTTT  
 AGACGACATAGATCTTGTCACTGATATTTACTACATACCTTATCACAAA

5' 11 21 31 41  
 2301 CCATATGATCTGTTGTCTGGAGTATATGCTACATGTTCAATTACTGTACA  
 GGTATACTAGACAACAGACCTCATATACGATGTACAAGTTAATGACATGT

5' 61 71 81 91  
 2351 AAAACCCAGTGCAGCTGATGATGCAAAGCAGTCTCTCTGTGTACAGTG  
 TTTTGGGTCA CGTCGACTACTACGTTTCGT CAGAGAGAGACACATGTCAC

5' 11 21 31 41  
 2401 CCCACCTATTTAAAAATCACGTACAASCC CAGAACACTGTGAAACACTT  
 GGGGTGGATAAATTTT TAGTGCATGTTSGGGTCTTGTGACACTTTGTGAA

5' 61 71 81 91  
 2451 AACATAAGAACAAACGCAGCGTCTGGATTCTTTCCAAGGAGAGCAGCTTT  
 TTGTATTCTTGTTTGCGTCGCAGACCTAAGAAAGGTTCTCTCGTCGAAA

5' 11 21 31 41  
 2501 CTCCACAGGAACACAGTAACAAAAGAGGTCCGCCGCCATCACACCCAGC  
 GAGGTGTCCTTGTGTCATTGTTTTCTCCAGGCGGCGGTAGGTGTGGGTGCG

5' 61 71 81 91  
 2551 CAAGACACCTCAGAGGCCATAGGGACAACCTCCTTGCTGGCCAACACCTG  
 GTTCTGTGGAGTCTCCGGTATCCCTGTTGGAGGAACGACCGGTTGTGGAC

# Figure 10 continued

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5'          11          21          31          41
2601 CTGGAGCAGGGGCACAGGTC CCAGCAACTGATCCTCAGTGGATGGGTCCG
      GACCTCGTCCCCGTGTCCAGGGTCGTTGACTAGGAGTCACCTACCCAGGC

5'          61          71          81          91
2651 CAGTCAAAGCCTTAATGGGCTCTCTTTTGAAGGGGAAAGAAAGAATTTCA
      GTCAGTTTCGGAATTACCCGAGAGAAAACCTCCCCTTCTTTCTTAAAGT

5'          11          21          31          41
2701 AGCTTATGATATCCAACATTATTATAGTTGATGAGTTAGTAAATTCCAAA
      TCGAATACTATAGGTTGTAAATAATATCAACTACTCAATCATTTAAGGTTT

5'          61          71          81          91
2751 AAAAAAAGATGATTTTATATGTATGACATAAAAAAATCTTTGTAAAGTG
      TTTTTTTCTACTAAATATACATACTGTATTTTTTTTAGAAACATTTTAC

5'          11          21          31          41
2801 CGCAAGTGCAATAATTTAAAGAGGTCTTATCTTTGCATTTATAAATTATA
      GCGTTCACGT TATTAAATTTCTCCAGAATAGAAACGTAAATATTTAATAT

5'          61          71          81          91
2851 AATATTGTACATGTGTGTAA TTTTTCATGTATTCATTTGCAGTCTTTGTA
      TTATAACATGTACACACATTAAAAAGTACATAAGTAAACGTCAGAAACAT

5'          11          21          31          41
2901 TTTAAAAAACTTTACTGTTATGTTTGTATAAATAGAACATTAATCATTTA
      AAATTTTTTTGAAATGACAAATACAAACATA TTATCTTGTAATTAGTAAAT

5'          61          71          81          91
2951 TTATAACTCAGACAAGGTGTAAATAAATTCATAATTCAAACAGCCAGTAT
      AATATTGAGTCTGTTCCACATTTATTTAAGTATTAAGTTTGTGCGTCATA

5'          11          21          31          41
3001 ATATGCATATATGGGTGTTA CATTGCAAAAATCTCTATCTTTGTTCTATT
      TATACGTATATACCCACAATGTAACGTTTTTAGAGATAGAAACAAGATAA

5'          61          71          81          91
3051 CACATGCTTAAAGAAGTAAGAAATCTTTTGTTGGATATGTAATTATACATA
      GTGTACGAATTTCTTCATTCTTTAGAAAACACCTATACATTAATATGTAT

5'          11          21          31          41
3101 TAAAGTATATATATATGTATGATACATGAAATATATTTAGAAATGTTTCAT
      ATTTTCATATATATATACATACTATGTACTTTATATAAATCTTTACAAGTA

5'          61          71          81          91
3151 AATTTTAATGGATATTCTTTGGTGTGAATAATTGAATACAACATTTTAA
      TTAA AATTACCTATAAGAAACCACTTATTAACCTATGTGTGTA AAAATT

5'          11          21          31          41
3201 AATGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
      TTA CTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT

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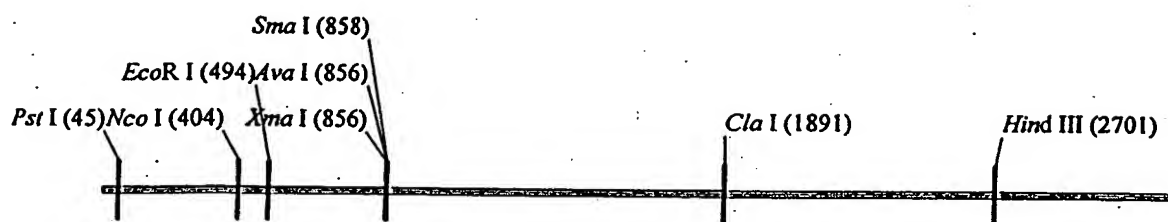


Figure 11  
3236 bp

Figure 12

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5'          11          21          31          41
1 AAGTGTAATAAAATAAACATCTAATAAAAAAATTACATACCATAGAGG
  TTCACATTTATTTTATTTGTAGATTATTTT TTTTAATGTA TGGTATCTCC

5'          61          71          81          91
51 AACAAGATAA TTTCTGCCCAACTTCATACCCTCCAGCGTATAGTGTTGAG
   TTGTTCTATTAAAGACGGGT TGAAGTATGGGAGGTCGCATATCACAAC TC

5'          11          21          31          41
101 GTTTGGTCTG TTGCTGTGTATTGTAATGTAATGTTAAATTCTCTACCTGA
   CAAACCAGACAACGACACATAACATTACATTACAATTTAAGAGATGGACT

5'          61          71          81          91
151 AGGTCTAGGC CTACAAGTGAATTCTCATGTTTATAGAGTTTGTGTGCA
   TCCAGATCCGGATGTTCACTTAAGAGTACAAATATCTCAAACAACACGT

5'          11          21          31          41
201 AACCTTGTTCTTTAATTTAAACTATGGTTAAAAACAAAACAAAACCTGG
   TTGGAACAAGGAATTAAATTTTGATACCAATTTTTTGT TTTTGTTTGTGACC

5'          61          71          81          91
251 CTACAGCCAA TAACTGAAGGGGGTTACCTTGTTGAAGGGGTGGAAAAGAG
   GATGTCCGTTATTGACTTCC CCAATGGAA CAACTTCCCCACCTTTTCTC

5'          11          21          31          41
301 AGAGGAGGAAGAAGGGAGTTCAAGAGAAGGAGAAGAACAA GAGGAGAGGA
   TCTCCTCCTTCTTCCCTCAAGTTCTCTTCTTCTTGTTCCTCTCCT

5'          61          71          81          91
351 GGAAGCTGCCACGAGGGGAGATGGGCCATGAGA ACTTGGCCAGGAGAAAT
   CCTTCGACGGTGCTCCCCTCTACCCGGTACTCTTGAACCGGTCTCTTTA

5'          11          21          31          41
401 AGCCAGTATCTGGAGTACACCACTGAGGAGGTAGCCAGGCTAGCAGTTAG
   TCGGTCATAGACCTCATGTG GTGACTCCTC CATCGGTCCGATCGTCAATC

5'          61          71          81          91
451 AAGAGTAGATTAGGGGTTATTTTCCCCCACTCCACATAGTTATCAAAGC
   TTCTCATCTAATCCCCAATAAAAAGGGGGTGAGGTGTATCAATAGTTTCG

5'          11          21          31          41
501 CAAATAAAATAACCATAGTCTGAGTCTCATCTATTTGTAAGCTAGTTGGG
   GTTTATTTTATTGGTATCAGACTCAGAGTAGATAAACATT CGATCAACCC

5'          61          71          81          91
551 TATAAGATTAATTTGGCTGTACTACAGTTT AGATTTCTAA CATAGGAACT
   ATATTCTAATTAAACCGACATGATGTCAAATCTAAAGATTGTATCCTTGA

5'          11          21          31          41
601 ATCAAAAACCTTGCTCAAACAAGAACATGCTGACAATATTTTAAAATGATT
   TAGTTTTTGAACGAGTTTGT TCTTGTACGACTGTTATAAAATTTTACTAA

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# Figure 12 continued

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5'          61          71          81          91
651 ATTTATATTGTTTGCACCTTCTAAAGTTTCTTCTAAATGTTCCATGGTCA
    TAAATATAACAAACGTGAAAGATTTCAAAGAAGATTTACAAGGTACCAGT

5'          11          21          31          41
701 AATTAAAAAATATACATATTGGCTATTAAATTCGTCTAAGTGGGGCTGGA
    TTAATTTTTTTATATGTATAACCGATAATTTAAGCAGATTACCCCCGACCT

5'          61          71          81          91
751 GAGATAGCTCAGAGGTTAAGAGCACTGACTGCTCTTCCAGAGGTCTCTGAG
    CTCTATCGAGTCTCCAATTC TCGTGACTGACGAGAAGGTCTCCAGGACTC

5'          11          21          31          41
801 TTCAATTCCCAGCGACCACATGGTGGCTCACAGCCATCTGTAATAGATAG
    AAGTTAAGGGTCGCTGGTGTACCACCGAGTGTCCGGTAGACATTATCTATC

5'          61          71          81          91
851 GATCTGACGCCTCTTCTGGAGTGTCTGAAGACAGCTACAATGTACTCAT
    CTAGACTGCGGGAGAAGACCTCACAGACTTCTGTGATGTTACATGAGTA

5'          11          21          31          41
901 ATATATTAAATAAATAATATTAGAAAATTCCTTCTAAGTGTATCATTTATA
    TATATAATTTATTTATTATAATCTTTTAAGAAGATTCACATAGTAAATAT

5'          61          71          81          91
951 GAATATTTAATATATAAAGTAAATGCCTCAGGAAATATAAACTTGGAATT
    CTTATAAATTATATATTTCA TTTACGGAGTCTTTTATATTTGAACCTTAA

5'          11          21          31          41
1001 AAATCAAAGAACTTCATGAGTAGTGGGCCACAAAAAATGTGTACCAGGGG
    TTTAGTTTCTTGAAGTACTCATCACCCGGTGTTTTTTTACACATGGTCCCC

5'          61          71          81          91
1051 AAGACCGGAGGGGAGGGGAGAAGGAAGGGATGGAGATAGAA TTTTGCTCT
    TTCTGGCCTCCTCCCTCTTTCCTTCCCTA CCTCTATCTTAAAACGGAGA

5'          11          21          31          41
1101 GCATTCTTGCTGGGCTGGCACAGGTATAATGCTGTGGGAATTGGGAACTAC
    CGTAAGGAACCCGACCGTGTCCATATTACGACACCCTTAA CCCTTTGATG

5'          61          71          81          91
1151 AAGGAAGCTGCAAAGCTGGGCGGAACTCGTTTCCGCAAGCTGGGCTCATC
    TTCCTTCGACGTTTCGACCCGCCTTGAGCAAAGGCGTTCGACCCGAGTAG

5'          11          21          31          41
1201 TAAGTGTCCATGCATGGCTGCCACACTGCAGTGAAC TTTAAACATTTGT
    ATTCACAGGTACGTACCGACGGTGTGACGTCACTTGAAATTTTGTAACA

5'          61          71          81          91
1251 GTTCCAGAGATGTAGAGATGCTCACAATAGTACAAAGGCGGGAGGGAGGT
    CAAGGTCTCTACATCTCTACGAGTGTTATCATGTTTCCGCCTCCCTCCA

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# Figure 12 continued

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5'          11          21          31          41
1301 ATTTCCAGACTAAGAGGAAGAAAAACCATTGCTGATTAAACATCTGCATA
    TAAAGGTCTGATTCTCCTTCTTTTGGTAACGACTAATTTGTAGACGTAT

5'          61          71          81          91
1351 TGAGCGCCCCCACCTCCATACACACACACACACACACACACACACACACA
    ACTCGCGGGGGTGGAGGTATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT

5'          11          21          31          41
1401 CAACCAAACAGAACAATAACACATGCATGTCTACAGCCTGCAGGAACAAA
    GTTGGTTTGTCTTGTTTATGTGTACGTACAGATGTCCGACGTCCCTTGTTT

5'          61          71          81          91
1451 ATGGTATGTCTGTGAGGAACCAGGAGATGCACAGGTCCTAACCTCTGTCT
    TACCATACAGACACTCCTTGGTCTCTACGTGTCCAGGATTGGAGACAGA

5'          11          21          31          41
1501 CCTACAAGCCCTGAAGTCTGGTCAGGGTCAAATGTACAAAAGCAGGCTAA
    GGATGTTCCGGGACTTCAGACCAGTCCCAGTTTACATGTTTTCGTCCGATT

5'          61          71          81          91
1551 GGAAGCTGTTT TAGTGAAAGATTTTTTTCTTCAACTCTAGGAACAACCTAT
    CCTTCGACAAATCACTTTCTAAAAAAGAAGTTGAGATCCTTGTTGGATA

5'          11          21          31          41
1601 TTCCTAGGATTTGGAGAGTGCTCAGGAGGAACATTCAGACAACCTGATGC
    AAGGATCCTAAACCTCTCACGAGTCTCCTTTGTAAGTCTGTTGACTACG

5'          61          71          81          91
1651 TCTCTGTGTACCCCAGATT CAGGTATTGGGGTAGTTAGTTGTGCTCATGT
    AGAGACACATGGGGTCTAAGTCCATAACCCCATCAATCAACACGAGTACA

5'          11          21          31          41
1701 ATGTGCTAGATATATTAGCACAGCCTGCCTTCTGCTGCACAACGCCTTAG
    TACACGATCTATATAATCGTGTCCGACGGAAGACGACGTGTTGCCGAATC

5'          61          71          81          91
1751 AGACCCGGCCTTTCAATGAGCTTAGCTTGTGCTCTGTTTCTGCTCTCTTA
    TCTGGGCCGGAAAGTTACTCGAATCGAACA CGAGACAAAGACGAGAGAAT

5'          11          21          31          41
1801 GGTCTAAACTATGGTGTCAGTTTTTAATAGAACAAAAGTATGCATCTTGCC
    CCAGATTTGATACCACAGTCAAATATCTTGTTTTTCATACGTAGAACGG

5'          61          71          81          91
1851 TTGGCTTGAGCCTTTTCGTTTTC AATGCTGACTTCTCCCCTTTCTCTCCT
    AACCGAACTCGGAAAAGCAAAGTTACGACTGAAGAGGGGAAAGAGAGGA

5'          11          21          31          41
1901 GTGCTCACCTTACCTTTCCAGAGTGTAAGGGACAACCTTTTAAGGAGGCGT
    CACGAGTGGAATGGAAAGGTCTCACATTCCCTGTTGAAAATTCCTCCGCA

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Figure 12 continued

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5'          61          71          81          91
1951 GTCCCTGGTAGGGGCATCCCTGTTTACCAGGTGCCTGTCATCACCCCACT
    CAGGGACCATCCCCGTAGGGACAAGTGGTCCACGGACAGTAGTGGGGTGA

5'          11          21          31          41
2001 TGACTGACATCTACCCTGGTGACTATGGGTTTCCTCTTGTTTGTAGGGAAC
    ACTGACTGTAGATGGGACCACTGATACCCAAGGAGAACAAACATCCCTTG

5'          61          71          81          91
2051 GGTGGCTCCAGGTGGAGGCATCAATCTGTTGGGTTCTGGTTCCCGGCTGC
    CCACCGAGGTCCACCTCCGTAGTTAGACAA CCAAGACCAAGGGCCGACG

5'          11          21          31          41
2101 CTTTGGTTTTGAAGTCTCTTCTCTGTATATTCCTACCCTGCATTGCTT
    GAAACCAAAA CTTTCAGAGAAGAGACATATAAGGATGGGACGTAAACGAA

5'          61          71          81          91
2151 TGTGTGGTGCTGATGCTGTGCGCAGCAGGATTCTTGATGACTCTCCATC
    ACACACCACGACTACGACACGCGTCGTCCTAAGAACCTACTGAGAGGTAG

5'          11          21          31          41
2201 AGTCACAGACTCCCCCTGTTGCAAAGTGTCAGGCTGACTCGACAGTCACC
    TCAGTGTCTGAGGGGGACAA CGTTTCACAGTCCGACTGAGCTGTCACTGG

5'          61          71          81          91
2251 GTAAAATCTGAGTCAGTCACACACAGGCTGTCAGCCACGGCTTCCACTTG
    CATTTTAGACTCAGTCAGTGTGTGTCCGACAGTCGGTGCCGAAGGTGAAC

5'          11          21          31          41
2301 CATGGCTATTCTATTTTCACACGTGAGTTTCTGTTGCTGGCTGGCTGACT
    GTACCGATAAGATAAAAGTGTGCACTCAAAGACAACGACCGACCGACTGA

5'          61          71          81          91
2351 GGCATTATCTATGCTAAGTTGAAATCAGGGGTGCCCAGCAGAGCCCATCA
    CCGTAATAGATACGATTCAA CTTTAGTCCC CACGGGTCGTCTCGGGTAGT

5'          11          21          31          41
2401 TTCTCACTGTCTTTGAAACAAAGCTGTACGGTTTGATCGATGAACGTATT
    AAGAGTGACAGAAACTTTGTTTCGACATGCCAAACTAGCTACTTGCATAA

5'          61          71          81          91
2451 TAAAGCATTTT CATGCAATGACAAAGTGCTCAGTAGTGGAAGGCAGGCTGT
    ATTTCTGTAAGTACGTTACTGTTTCACGAGTCATCACCTTCCGTCCGACA

5'          11          21          31          41
2501 GACCAGTCTGCCTGCTCCTTACTATAATTGTGAGGATTTGTTACTGGAAC
    CTGGTCAGACGGACGAGGAATGATATTAACACTCCTAAACAATGACCTTG

5'          61          71          81          91
2551 AGTACATGGAGGCCTGACCTTGTGGGGGCA CAGGGTGGAACCTTAGCTGA
    TCATGTACCTCCGGACTGGAACACCCCCGTGTCCACCTTGGAATCGACT

```

# Figure 12 continued

5' 11 21 31 41  
 2601 ATATAGTGTGTGTCTCAAGAGGAAGTCAGGGTACTAGCTCAGTGCTCAAT  
 TATATCACACACAGAGTTCTCCTTCAGTCCCATGATCGAGTCACGAGTTA

5' 61 71 81 91  
 2651 CTCCAGGTACTATATATACATTTGCCCCGTTTATCTCTAATGTGAAATAA  
 GAGGTCCATGATATATATGTAAACGGGCAAATAGAGATTACACTTTATT

5' 11 21 31 41  
 2701 ATCCCCAAACACTTGTATTATCGTGTAGCGTACCTAAAAGACTATTCTATT  
 TAGGGGTTTGTGAACAAATAGCACATCGCATGGATTTTCTGATAAGATAA

5' 61 71 81 91  
 2751 ATGGGTGTCCCCACTTTCTTGGTTTGGTCACCCCGATCCCCCGGTCTTCT  
 TACCCACAGGGGTGAAAGAA CCAAACCAGTGGGGCTAGGGGGCCAGAAGA

5' 11 21 31 41  
 2801 GCTGTATCTAGAACAGTGACTATAAATGATGTATGGGAATAGTGTTTCCA  
 CGACATAGATCTTGTCAGTATTTACTACATACCCTTATCACAAAGGT

5' 61 71 81 91  
 2851 TATGATCTGTTGTCTGGAGTATATGCTACATGTTTCATTTACTGTACAAAA  
 ATACTAGACAACAGACCTCATATACGATGTACAAGTAAATGACATGTTTT

5' 11 21 31 41  
 2901 ACCCAGTGCAGCTGATGATGCAAAGCAGTCTCTCTCTGTGTACAGTGCCC  
 TGGGTCACGTGACTACTACGTTTCGTCAGAGAGAGACACATGTCACGGG

5' 61 71 81 91  
 2951 CACCTATTTTAAAAATCACGTACTTGCCCGAAGCACTGTGAAACACTTAAAC  
 GTGGATAAATTTTTAGTGATGAACGGGTCTTGTGACACTTTGTGAATTG

5' 11 21 31 41  
 3001 ATAAGAACAACGCAGCGTCTGGATTCTTTCCAAGGAGAGCAGCTTTCTC  
 TATTCTTGTTTGCGTCGCAGACCTAAGAAAGGTTCTCTCGTCGAAAGAG

5' 61 71 81 91  
 3051 CACAGGAACA CAGTAACAAAAGAGGTCCGC CGCCATCCACACCCAGCCAA  
 GTGTCCTTGTGTCATTGTTTTCTCCAGGCGGCGGTAGGTGTGGGTCTGGTT

5' 11 21 31 41  
 3101 GACACCTCAGAGGCCATAGGGACAACCTCCTTGCTGGCCAACACCTGCTG  
 CTGTGGAGTCTCCGGTATCCCTGTTGGAGGAACGACCGGTGTGGACGAC

5' 61 71 81 91  
 3151 GAGCAGGGGCACAGGTCCCAGCAACTGATCTCAGTGGATGGGTCTGCAG  
 CTCGTCCCCGTGTCCAGGGTCGTTGACTAGGAGTCACCTACCCAGACGTC

5' 11 21 31 41  
 3201 CCAAAGCCTTAATGGGCTCTCTTTTGAAGGGGAAAGAAAGAATTTCAAGC  
 GGTTCGGAAATTACCCGAGAGAAAACCTCCCTTTCTTTCTTAAAGTTTCG

Figure 12 continued

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5'           61           71           81           91
3251 TTATGATATC CAATATTATTATAGTTGATGAGTTAGTAAATTC CAAAAAA
AATACTATAGGTTATAATAATATCAACTACTCAATCATTTAAGGTTTTTT

5'           11           21           31           41
3301 AAAAGATGATTTTATATGTATGACATAAAAAAATCTTTGTAAAGTGCGC
TTTTCTACTAAAATATACATACTGTATTTTTTTTAGAAACATTTACACGC

5'           61           71           81           91
3351 AAGTGCAATAATTTAAAGAGGTCTTATCTTTGCATTTATAAATTATAAAT
TTCACGTTATTAAATTTCTC CAGAATAGAAACGTAAATATTTAATATTTA

5'           11           21           31           41
3401 ATTGTACATGTGTGTAATTTTTCATGTATT CATTTCAGTCTTTGTATTT
TAACATGTACACACATTAAAAAGTACATAAGTAAACGTCAGAAACATAAA

5'           61           71           81           91
3451 AAAAAA CTTTACTGTTATGTTTGTATAATAGAACATTAA TCATTTATTA
TTTTTTTGAAATGACAATACAAACATATTATCTTGTAATTAGTAAATAAT

5'           11           21           31           41
3501 TAACTCAGACAAGGTGTAAA TAAATTCATAATTCAAACAGCCAGTATATA
ATTGAGTCTGTTCCACATTTATTTAAGTATTAAGTTTGTCTGGTCATATAT

5'           61           71           81           91
3551 TGCATATATGGGTGTTACATTGCAAAAATCTCTATCTTTGTTCTATTCAC
ACGTATATACCCACAATGTAACGTTTTTAGAGATAGAAACAAGATAAGTG

5'           11           21           31           41
3601 ATGCTTAAAGAAGTAAGAAA TCTTTTGTGGATATGTAATTATACATATAA
TACGAATTTCTTCATTCTTTAGAAAACACCTATACATTAAATATGTATATT

5'           61           71           81           91
3651 AGTATATATATATGTATGATACATGAAATA TATTTAGAAATGTTTCATAAT
TCATATATATATACATACTATGTACTTTATATAAATCTTTACAAGTATTA

5'           11           21           31           41
3701 TTTAATGGATATTCTTTGGTGTGAATAATTGAATACAACATTTTTTAAAAT
AAATTACCTATAAGAAACCA CACTTATTAACTTATGTTGTAAAAATTTTA

5'           61           71           81           91
3751 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAATTTTTTTTTTTTTTTT
TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAAA AAAAAAAAAA

5'           11           21           31           41
3801 TTATTCCAGAGATTAAAGACACTAGATCTTTAACCTTGAAGGGCAGGCAA
AATAAGGTCTCTAATTTCTGTGATCTAGAAATTGGAACCTCCCGTCCGTT

5'           61           71           81           91
3851 GAGGTCTGGCAATGCTGTCAA CATAGAAGTCAGGGACCATT TTCTTCTTGA
CTCCAGCCGTTACGACAGTTGTATCTTCAGTCCCTGGTAAAGAAGAACT

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Figure 12 continued

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5'          11          21          31          41
3901 ACATGCAGTCACTTTCCTGATTGCTCTTCAATCCTCAAGGCTCCGGAAT
    TGTACGTCAGTGAAAGGACTAACGAGAAGTGTAGGAGTTCGAGGCCTTA

5'          61          71          81          91
3951 TCCGGGGGGTGTGGTGGGCTTTGATCTCAGGACTCTGGAGGCAGAAGCAGG
    AGGCCCCCACACCACCCGAACTAGAGTCTTGAGACCTCCGTCTTCGTCC

5'          11          21          31          41
4001 CAGATCTCTGTGAATATGAGGCCAGCCTGCACTACACAGAGCTCCAGACC
    GTCTAGAGACACTTATACTCCGGTCGGACGTGATGTGTCTCGAGGTCTGG

5'          61          71          81          91
4051 AGTCATGGCTACATCATGAAACCCTGTCTCAAAAAGAAAAATAAAACTGT
    TCAGTACCGATGTAGTACTTTGGGACAGAGTTTTTCTTTTATTTTGTACA

5'          11          21          31          41
4101 TGTGTTTCTACCATAGTGTTAAACTCAGAGTCTGAGTAATGTCGGGCTGA
    ACACAAAGATGGTATCACAA TTGAGTCTCAGACTCATTA CAGCCCGACT

5'          61          71          81          91
4151 CATGCTCGGGTGTTTAAACATACCTTCAGCTTTGACGAGGCGCTGAACAGT
    GTACGAGCCCAAAATTGTA TGGAAGTCGAAACTGCTCCGCGACTTGTC

5'          11          21          31          41
4201 CAAAGTCTGGCCTTGGGGAGCGGTGGCTGTGTTTGTGCTCAAGTCCACCG
    GTTTCAGACCGGAACCCCTCGCCACCGACACAAACACGAGTTCAGGTGGC

5'          61          71          81          91
4251 TGAAATCCTGATTGTGAATT TGGACAACCGTGTCTTCTTCTTGGCCTTC
    ACTTTAGGACTAACACTTAAACCTGTTGGCACAGGAAGAAGAACC GGAAG

5'          11          21          31          41
4301 CATGCAACCTCCAACCTTCATGTTGGTCATTTTGTCAAAACACTGTGTGAT
    GTACGTTGGAGGTTGAAGTACAACAGTAAACAGTTTTTGTGACACACTA

5'          61          71          81          91
4351 GTTTTTATCAATATACTGCCATTCCACATA TG TAGAGATGTAGTCTGCCT
    CAAAATAGTTATATGACGGTAAGGTGTATACATCTCTACATCAGACGGA

5'          11          21          31          41
4401 GGCTTTCCTTTTCTTTAGCCAATCGAATGCTCTTGATCATGCCCTCAATC
    CCGAAAGGAAAAGAAATCGGTTAGCTTACGAGAACTAGTACGGGAGTTAG

5'          61          71          81          91
4451 TCATCTCTAGCTTTTATCACGTCTCTGCTAATTCCTGAAACTTGAATCGA
    AGTAGAGATCGAAAATAGTG CAGAGACGATTAAGGACTTTGAACCTAGCT

5'          11          21          31          41
4501 AGTTTTCTTCTGGTTCATCTCAATGGTGATGTT CAGTTCCTTCTGAATCT
    TCAAAAGAAGACCAAGTAGAGTTACCACTACAAGTCAAGGAAGACTTAGA

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# Figure 12 continued

5' 61 71 81 91  
 4551 CATTCAAGTTTCTCGTACTCCTCCATGTCAAAGTCACTGACACACTCATCG  
 GTAAGTCAAAGAGCATGAGGAGGTACAGTTTCAGTGACTGTGTGAGTAGC

5' 11 21 31 41  
 4601 TCATTGGTGTAGGAAAGCTGCTCTTTGGTAATCAGTTCCTTTAGCCAGGA  
 AGTAACCACATCCTTTCGACGAGAAACCATTAGTCAAGGAAATCGGTCCT

5' 61 71 81 91  
 4651 GATTGTTTTGTTCACTGTCTACCCCTGAACCACATACCTGGAAAAGT  
 CTAACAAAACAAGTGTGACAGATGGGGACTTGGTGTATGGACCTTTTGAC

5' 11 21 31 41  
 4701 TGTGCTCTATTTTCTTTTCCAAAACAGGGTGTTCTTTTGGGGGAAGCT  
 ACACGAGATAAAAGAAAAGGTTTTGGTCCCACAAGAAAAACCCCTTCGA

5' 61 71 81 91  
 4751 TGCTTGGGAAAGCCAAGAAAGGCTAAAGAGAAAATGGAAATTAATGTTTC  
 ACGAACCTTTCGGTTCCTTCCGATTTCTCTTTTACCTTTAATTACAAAG

5' 11 21 31 41  
 4801 TTTTACTCCCCTCAACATCAAGGTTAGGAATATGTATTTTCATAAAAGCTA  
 AAAATGAGGGAAGTTGTAGTTCCAATCCTTATACATAAAGTATTTTCGAT

5' 61 71 81 91  
 4851 ACAACTCACAGGCAATCTTAGACATCACTGACTGCTTGGCAGGCGACTGC  
 TGTGAGTGTCCGTTAGAATCTGTAGTGACTGACGAACCGTCCGCTGACG

5' 11 21 31 41  
 4901 TTGGGGGGAGCTGGAGAGCCTTCTCTTTCTTTTCATGTTGTGTAATAAAAA  
 AACCCCCCTCGACCTCTCGGAAGAGAAAGTACAACAGCATTTTTTTT

5' 61 71 81 91  
 4951 TTGCAGAATA TGGGGCTGGAAGATAACAACCTTAACTCTCTTCACAGCCT  
 AACGTCTTATACCCCGACCTTCTATTGTTGAAATTGAGAGAAGTGTGCGA

5' 11 21 31 41  
 5001 GCACTGATTTTTTCTGGACAAATTCTTCAA TGGCATCTATTATCGCTTTT  
 CGTGACTAAAAAAGACCTGTTAAGAAGTTACCGTAGATAATAGCGAAAA

5' 61 71 81 91  
 5051 GCTACTACGTTTGGGTCCTGTTGAGCATTTCTTCAAAAA CAAAAAAGC  
 CGATGATGCAAACCCAGGACAACCTCGTAAAGGAAGTTTTTGTTTTTTTCG

5' 11 21 31 41  
 5101 ACATTTTTTAAAAAGTCAAGGTTAAGATCCA CCGCAAAAAAAGCTGCAA  
 TGTAAAAATTTTTCAGTTCCAATTCTAGGTGGACGTTTTTTTTCGACGTT

5' 61 71 81 91  
 5151 TATAAGCGAGGAATTCTAGTTGTACAGGAAATAAAAAATGCTGTTCCTCA  
 ATATTCGCTCCTTAAGATCAACAGTGTCCTTTATTTTTTACAGACAAGGGT

# Figure 12 continued

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5'          11          21          31          41
5201 CTATAATCAATGTAGACTGATAATATTATGCCAGCAAATAGTTTTGAAGT
    GATATTAGTTACATCTGACTATTATAATACGGTCGTTTATCAAAACTTCA

5'          61          71          81          91
5251 CCTAGGCACAGTGGGAGGAGGTTTTGTTCCACGCTGTTTCAATAGCCAATA
    GGATCCGTGTCACCCTCCTCCAAAACAAGGTGCGACAAGTATTCGGTTAT

5'          11          21          31          41
5301 CCCCAGCAAAAGACCTTAAAGGACAACCTGTAATTTGGGACATTCACATC
    GGGGTCGTTTCTCGGAATTTCTGTGTAACATTAAACCCTGTAAGTGTAG

5'          61          71          81          91
5351 TGTCTCTTTCATCTGATCTGGCTCCAGTGTCACCTCTTAACACGGTCCT
    ACAGGAGAAGTAGACTAGACCGAGGGTCACAGTGAGAGATTGTGCCAGGA

5'          11          21          31          41
5401 TAGAGGGACAATTTATCCCTGCCTCTGCTTGATCTTATGCATGTATCTGT
    ATCTCCCTGTTAAATAGGGACGGAGACGAACTAGAATACGTACATAGACA

5'          61          71          81          91
5451 ATTCTTCCAGCCATCCCTGGCGACCTGATTTTTCTAAGGCACCCAAAAC
    TAAGAAGGTCGGTAGGGACCGCTGGACTAAAAAGATTCCGTGGGTTTTGA

5'          11          21          31          41
5501 GTAAGCTACTTCTTATAATCTATAATTCTGAGCATATTAGTTAGCCTGAG
    CATTTCGATGAAGAATATTAGATATTAAGACTCGTATAATCAATCGGACTC

5'          61          71          81          91
5551 CCTCCAGGATATCTTTCTTCCTATACTCAGTCCAGTTTTAGCTGCCCAG
    GGAGGTCCTATAGAAAGAAGGGATATGAGTCAGGTCAAAATCGACGGGTC

5'          11          21          31          41
5601 AAGGATTCAAAGCTGATCTACGAGTAGATCACTCCTGTCTACAGCTTGTT
    TTCCTAAGTTTCGACTAGATGCTCATCTAGTGAGGACAGATGTCGAACAA

5'          61          71          81          91
5651 CCAGATCTTGTCTTCTCAAGCCCTGGAAGCCATCAGCCAGGTAAGATTGTA
    GGTCTAGAACAAGAGTTTCGGGACCTTCGGTAGTCGGTCCATTCTAACAT

5'          11          21          31          41
5701 AAACAATCCCTTTCTAATCATGGGTGTGGCCCAAAGTGAATGGCCGGAAT
    TTTGTTAGGGAAAGATTAGTACCCACACCGGGTTTCACTTACCGGCCTTA

5'          61          71          81          91
5751 TC
    AG

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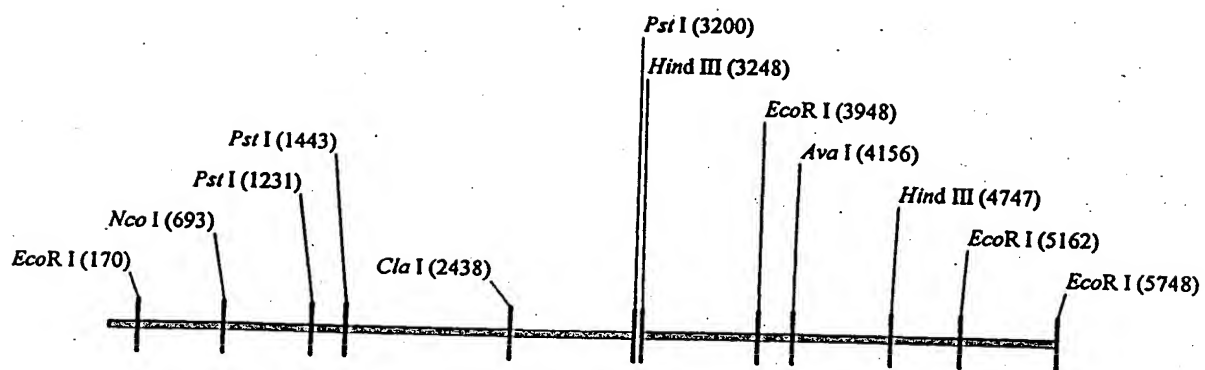


Figure 13

5752 bp

cDHD-1

cDHD-2

Figure 14

# Figure 15

PDE10a and RACEs compiled

1	CGCCCGGGCA	GGTCTGTTGG	AGGGCAGTTG	GTCAACCTGA	CCAGAGAGAG	CTGAGCTGGA
	GCGGGCCCCG	CCAGACAACC	TCCCCTCAAC	CAGTTGGACT	GGTCTCTCTC	GA CTGACCT
61	AGACCCCACT	GATGGTGTGC	TGCCTTTCAG	TCCAGGAAGA	AAGAAAGGAA	GGATTCTGAG
	TCTGGGGTGA	CTACCACACG	ACGGAAAGTC	AGGTCCTTCT	TTCTTTCTCT	CCTAAGACTC
121	GATTTGGGCA	AAGCCACATT	CCTGGAGAAG	TCTGTATACT	GATGCCAAAC	CCAAGAGCTG
	CTAAACCCGT	TTCCGGTGTA	GGACCTCTTC	AGACATATGA	CTACGGTTTG	GGTTCTCGAC
181	AGCTGCTGAT	GAGGCCCAGG	GAGTAGCCCA	CGCGCCCTGA	GCTGTTGGCT	AGCAAGGCCCT
	TCGACGACTA	CTCCGGGTCC	CTCATCGGGT	GCGCGGGACT	CGACAACCGA	TCGTTCCGGA
241	TCCTGCTCCA	TGTGGCATGG	AAAAATTATA	TGGTTTGACG	GATGAAAAGG	TGAAGGCCTA
	AGGACGAGGT	ACACCGTACC	TTTTTAATAT	ACCAAAGTGC	CTACTTTTCC	ACTTCCGGAT
301	TCTTTCTCTC	CATCCCCAGG	TATTAGATGA	ATTTGTTTCT	GAAAGTGTTA	GTGCAGAGAC
	AGAAAGAGAG	GTAGGGGTCC	ATAATCTACT	TAAACAAAGA	CTTTCACAAT	CACGTCTCTG
361	TGTGGAAAAG	TGGCTGAAGA	GGAAAACCAA	CAAAGCAAAA	GATGAACCAT	CTCCCAAGGA
	ACACCTTTTC	ACCGACTTCT	CCTTTTGGTT	GTTTCGTTTT	CTACTTGTTA	GAGGGTTCCT
421	AGTCAGCAGG	TACCAGGATA	CGAATATGCA	GGGAGTCGTG	TACGAGCTGA	ACAGCTACAT
	TCAGTCGTCC	ATGGTCCTAT	GCTTATACGT	CCCTCAGCAC	ATGCTCGACT	TGTCGATGTA
481	AGAGCAGCGC	CTGGACACGG	GCGGGGACAA	CCACCTGCTC	CTCTATGAGC	TCAGCAGCAT
	TCTCGTCGCG	GACCTGTGCC	CGCCCCTGTT	GGTGGACGAG	GAGATACTCG	AGTCGTCGTA
541	CATCAGGATA	GCCACAAAAG	CCGACGGATT	TGCACTGTAC	TTCCTTGAGG	AGTGAATAA
	GTAGTCCTAT	CGGTGTTTTC	GGCTGCCTAA	ACGTGACATG	AAGGAACCTC	TCACGTTATT
601	TAGCCTGTGT	GTGTTCATAC	CACCCGGGAT	GAAGGAAGGC	CAACCCCGGC	TCATCCCTGC
	ATCGGACACA	CACAAGTATG	GTGGGCCCTA	CTTCCTTCCG	GTTGGGGCCG	AGTAGGGACG
661	AGGGCCCATC	ACCCAGGGTA	CCACCATCTC	TGCCTACGTG	GCCAAGTCTA	GGAAGACGTT
	TCCCGGGTAG	TGGGTCCCAT	GGTGGTAGAG	ACGGATGCAC	CGGTTTCAGAT	CCTTCTGCAA
		EcoRV		XhoI		
721	GTTGGTAGAG	GATATCCTTG	GGGATGAGCG	ATTTCCCTCGA	GGTACTGGCC	TGGAATCAGG
	CAACCATCTC	CTATAGGAAC	CCCTACTCGC	TAAAGGAGCT	CCATGACCGG	ACCTTAGTCC
781	AACCCGCATC	CAGTCTGTTC	TTTGCTTGCC	CATTGTCACT	GCCATTGGAG	ACTTGATTGG
	TTGGGCGTAG	GTCAGACAAG	AAACGAACGG	GTAACAGTGA	CGGTAACCTC	TGAAC TAACC
841	CATCCTTGAA	CTGTACAGGC	ACTGGGGCAA	AGAGGCCTTC	TGCCTCAGCC	ATCAGGAGGT
	GTAGGAACTT	GACATGTCCG	TGACCCCGTT	TCTCCGGAAG	ACGGAGTCGG	TAGTCCTCCA
901	TGCAACAGCC	AATCTTGCTT	GGGCTTCCGT	AGCAATACAC	CAGGTGCAGG	TGTGTAGAGG
	ACGTTGTCCG	TTAGAACGAA	CCCGAAGGCA	TCGTTATGTG	GTCCACGTCC	ACACATCTCC
961	TCTCGCCAAA	CAGACCGAAC	TGAATGACTT	CCTACTCGAC	GTATCAAAGA	CATACTTTGA
	AGAGCGGTTT	GTCTGGCTTG	ACTTACTGAA	GGATGAGCTG	CATAGTTTCT	GTATGAAACT
1021	TAACATAGTT	GCCATAGACT	CTCTACTTGA	ACACATCATG	ATATATGCAA	AAAATCTAGT
	ATTGTATCAA	CGGTATCTGA	GAGATGAACT	TGTGTAGTAC	TATATACGTT	TTT TAGATCA
1081	GAACGCCGAC	CGCTGCGCGC	TCTTCCAGGT	GGACCACAAG	AACAAGGAGC	TGTACTCGGA
	CTTGCGGCTG	GCGACGCGCG	AGAAGGTCCA	CCTGGTGTTC	TTGTTCCCTG	ACATGAGCCT
1141	CCTGTTTGAC	ATTGGGGAGG	AGAAGGAGGG	GAAGCCCATC	TTCAAGAAGA	CCAAGGAGAT
	GGACAAACTG	TAACCCCTCC	TCTTCCCTCC	CTTCGGGTAG	AAGTTCTTCT	GGTTCCCTCTA
1201	CAGATTTTCC	ATTGAGAAAG	GGATTGCTGG	TCAAGTGGCA	AGAACAGGCG	AAGTCTTGAA
	GTCTAAAAGG	TAAC TCTTTC	CCTAACGACC	AGTTCACCGT	TCTTGTCCGC	TTCAGAACTT
1261	CATTCCCGAT	GCCTACGCGG	ACCCTCGCTT	TAACAGGGAG	GTGGACCTGT	ACACAGGCTA
	GTAAGGGCTA	CGGATGCGCC	TGGGAGCGAA	ATTGTCCCTC	CACCTGGACA	TGTGTCCGAT
1321	CACCACGAGG	AACATTCTGT	GTATGCCCAT	AGTGAGCCGA	GGCAGCGTGA	TTGGCGTGGT
	GTGGTGCTCC	TTGTAAGACA	CATACGGGTA	CTACTCGGCT	CCGTCGCACT	AACCGCACCA

# Figure 15 (con't)

PDE10a and RACs compiled

1381	GCAGATGGTG	AACAAGATCA	GCGGTAGCGC	CTTCTCCAAG	ACAGACGAGA	ACAACTTCAA
	CGTCTACCAC	TTGTTCTAGT	CGCCATCGCG	GAAGAGGTTT	TGTCTGCTCT	TGTTGAAGTT
					BamHI	
1441	GATGTTTGCT	GTCTTCTGCG	CACTGGCCTT	GCACTGTGCT	AACATGTACC	ACAGGATCCG
	CTACAAACGA	CAGAAGACGC	GTGACCGGAA	CGTGACACGA	TTGTACATGG	TGTCCTAGGC
				HindIII		
1501	CCACTCAGAA	TGCATCTACA	GGGTACCATT	GGAGAAGCTT	TCCTACCACA	GCATCTGCAC
	GGTGAGTCTT	ACGTAGATGT	CCCAATGGTA	CCTCTTCGAA	AGGATGGTGT	CGTAGACGTG
1561	CTCCGAGGAG	TGGCAAGGCC	TCATGCGCTT	CAACCTACCA	GCACGCATCT	GCCGGGACAT
	GAGGCTCCTC	ACCGTTCCGG	AGTACGCGAA	GTTGGATGGT	CGTGCCTAGA	CGGCCCTGTA
1621	CGAGCTATTC	CACTTTGACA	TTGGTCCTTT	CGAGAACATG	TGGCCTGGGA	TCTTTGTCTA
	GCTCGATAAG	GTGAACTGT	AACCAGGAAA	GCTCTTGATC	ACCGGACCCT	AGAAACAGAT
1681	CATGATCCAT	CGGTCTTGTC	GGACATCCTG	TTTTGAACTT	GAAAAATTGT	GCCGTTTTAT
	GTACTAGGTA	GCCAGAACAC	CCTGTAGGAC	AAAACTTGAA	CTTTTTAACA	CGGCAAAATA
1741	CATGTCTGTG	AAGAAGAACT	ATCGGCGGGT	TCCTTACCAC	AACTGGAAGC	ATGCAGTCAC
	GTACAGACAC	TTCTTCTTGA	TAGCCGCCCA	AGGAATGGTG	TTGACCTTCG	TACGTCAGTG
					XhoI	
1801	GGTGGCACAC	TGCATGTATG	CCATACTTCA	AAACAACAAT	GGCCTCTTCA	CAGACCTCGA
	CCACCGTGTG	ACGTACATAC	GGTATGAAGT	TTTGTGTGTA	CCGGAGAAGT	GTCTGGAGCT
	XhoI					
1861	GCGCAAAGGC	CTGCTAATTG	CGTGTCTGTG	CCATGACCTG	GACCACAGGG	GCTTCAGTAA
	CGCGTTTCCG	GACGATTAAAC	GCACAGACAC	GGTACTGGAC	CTGGTGTCCT	CGAAGTCATT
1921	CAGCTACCTG	CAGAAGTTCG	ACCACCCCTT	GGCGGCGCTG	TACTCCACCT	CCACCATGGA
	GTCGATGGAC	GTCTTCAAGC	TGGTGGGGGA	CCGCCGCGAC	ATGAGGTGGA	GGTGGTACCT
1981	GCAACACCAC	TTCTCCCAGA	CGGTGTCCAT	CCTTCAGCTG	GAAGGGCACA	ATATCTTCTC
	CGTTGTGGTG	AAGAGGTCT	GCCACAGGTA	GGAAGTCGAC	CTTCCCGTGT	TATAGAAGAG
2041	CACCCTGAGC	TCCAGCGAGT	ACGAGCAGGT	GCTGGAGATC	ATCCGCAAAG	CCATCATCGC
	GTGGGACTCG	AGGTCGCTCA	TGCTCGTCCA	CGACCTCTAG	TAGGCGTTTC	GGTAGTAGCG
2101	CACCGACCTC	GCCCTATACT	TTGGGAACAG	GAAGCAGTTG	GAGGAGATGT	ACCAGACAGG
	GTGGCTGGAG	CGGGATATGA	AACCTTGTC	CTTCGTCAAC	CTCCTCTACA	TGGTCTGTCC
2161	GTCGCTGAAC	CTCCACAACC	AGTCCCATCG	AGACCGTGTC	ATCGGCTTGA	TGATGACTGC
	CAGCGACTTG	GAGGTGTTGG	TCAGGGTAGC	TCTGGCACAG	TAGCCGAAC	ACTACTGACG
2221	CTGTGATCTT	TGCTCTGTGA	CCAAACTATG	GCCAGTTACA	AAATTGACAG	CGAATGATAT
	GACACTAGAA	ACGAGACACT	GGTTTGATAC	CGGTCAATGT	TTTAACTGTC	GCTTACTATA
	EcoRI					
2281	ATATGCAGAA	TTCTGGGCTG	AGGGTGATGA	GATGAAGAAG	CTGGGCATAC	AGCCCATTC
	TATACGTCTT	AAGACCCGAC	TCCCACTACT	CTACTTCTTC	GACCCGTATG	TCGGGTAAGG
2341	TATGATGGAC	AGAGACAAGC	GAGATGAAGT	CCCTCAAGGG	CAGCTCGGAT	TCTACAATGC
	ATACTACCTG	TCTCTGTTTC	CTCTACTTCA	GGGAGTTCCC	GTCGAGCCTA	AGATGTTACG
2401	TGTGGCCATT	CCCTGCTATA	CCACCTTGAC	GCAGATCCTC	CCACCCACAG	AGCCTCTGCT
	ACACCGGTAA	GGGACGATAT	GGTGGAATG	CGTCTAGGAG	GGTGGGTGTC	TCGGAGACGA
2461	GAAGGCTGTC	AGGGATAACC	TCAATCAGTG	GGAGAAGGTA	ATTCGCGGGG	AAGAGACAGC
	CTTCCGGACG	TCCCTATTGG	AGTTAGTCAC	CCTCTTCCAT	TAAGCGCCCC	TTCTCTGTCT
2521	AATGTGGATT	TCAGGCCCAG	GCCCGGCGCC	TAGCAAGAGC	ACACCTGAGA	AGCTGAACGT
	TTACACCTAA	AGTCCGGGTC	CGGGCCGCGG	ATCGTTCTCG	TGTGGACTCT	TCGACTTGCA
2581	GAAGGTTGAA	GACTGATCCT	GAAGTGACGT	CCTGATGTCT	GCCCAGCAAC	CGACTCAACC
	CTTCCAACCT	CTGACTAGGA	CTTCACTGCA	GGACTACAGA	CGGGTCGTTG	GCTGAGTTGG
2641	TGCTTCTGTG	ACTTCGTTCT	TTTTGTTTTT	AAGGGGTGAA	AACCCCTGT	CAGAAGGTAC
	ACGAAGACAC	TGAAGCAAGA	AAAACAAAG	TTCCCCACTT	TTGGGGGACA	GTCTTCCATG

# Figure 15 (con't)

PDE10a and RACEs compiled

2701	CGTCGCATAT	CCATGTGAAG	CAGACGACTC	CCTGCTTGCC	GCACACACCT	CGGACAGTGA
	GCAGCGTATA	GGTACACTTC	GTCTGCTGAG	GGACGAACGG	CGTGTGTGGA	GCCTGTCACT
2761	GCAACCCAGG	CTCTGCCGTG	TTCAGACGTC	GGCTACTCCG	TGGCTCCACC	TGACCTCCGA
	CGTTGGGTCC	GAGACGGCAC	AAGTCTGCAG	CCGATGAGGC	ACCGAGGTGG	ACTGGAGGCT
2821	ATGCTATTTG	CTCCCAGGCC	AGCACTGCAC	TGTCTGGAGG	GGGCAGAGAC	CACAGGAGAG
	TACGATAAAC	GAGGGTCCGG	TCGTGACGTG	ACAGACCTCC	CCCGTCTCTG	GTGTCCCTCTC
2881	GTTCTTGCCT	GCATCCTCCC	ATGAGGGTGT	GGCCAGTTCC	CTAGTTCTGT	GCCATGCTGC
	CAAGAACCGA	CGTAGGAGGG	TACTCCCACA	CCGGTCAAGG	GATCAAGACA	CGGTACGACG
2941	TGCTTGGTGG	CATTGGTTAG	GAATGGGACA	CACGCCCTT	GTGTGAAGT	TTACATGTGA
	ACGAACCACC	GTAACCAATC	CTTACCCTGT	GTGCGGGGAA	CAACACTTCA	AATGTACACT
3001	CCTTCTTATA	GGTAACTGA	GTTTGTGGCC	TGGACACATG	TAATGAAGGT	CACAGTCCAC
	GGAAGAATAT	CCAATTGACT	CAAACACCGG	ACCTGTGTAC	ATTACTTCCA	GTGTCAGGTG
3061	AGGTGACAGA	GAAATCCAAA	CTGTTGATTA	CAGGTGCACT	ACAGGTATGC	TCTTTCAGTC
	TCCACTGTCT	CTTTAGGTTT	GACAACTAAT	GTCCACGTGA	TGTCCATACG	AGAAAGTCAG
3121	TATCTGGGGG	CACATAGGTG	AGTCTGCTCC	ACTCAGAANN	AAGCATACCT	CTGCCCTCAT
	ATAGACCCCC	GTGTATCCAC	TCAGACGAGG	TGAGTCTTNN	TTCGTATGGA	GACGGGAGTA
3181	CCAGGGGACA	CAGGGTACAT	CCCAGGCATC	GGGGAACCTGA	AGCTCTCACT	TCAAACCATG
	GGTCCCCTGT	GTCCCATGTA	GGGTCCGTAG	CCCCTTGACT	TCGAGAGTGA	AGTTTGGTAC
3241	TCAAAGAATT	AAAACACCTC	CCCTCCCCCT	CACTGTAGCC	TTCGACAAC	GCGCCAATCC
	AGTTTCTTAA	TTTTGTGGAG	GGGAGGGGGA	GTGACATCGG	AAGCTGTTGA	CGCGGTTAGG
3301	CTTTATACAA	AGAAAATAAA	AGTAAGGCAT	ATAAATTTC	TCCAGCAAGC	AAATCTTGTG
	GAAATATGTT	TCTTTTATTT	TCATTCCGTA	TATTTAAAGG	AGGTCGTTCC	TTTAGAACAC
3361	GGTAAAAAAA	AAGCATGTGA	ATNNTAACAA	CNTCTANANT	NTCNCNGNAT	GTTATGGCAG
	CCATTTTTTT	TTCGTACACT	TANNATTGTT	GNAGATNTNA	NAGNGNCNTA	CAATACCGTC
3421	AATTTTAGTC	ACGTCCAAAA	CAAAAAGATT	ATTCCAGAAG	ATACCTCATC	CTATGCCTGA
	TTAAAATCAG	TGCAGGTTTT	GTTTTTCTAA	TAAGGTCCTC	TATGGAGTAG	GATACGGACT
3481	AAGGCTCCAC	AGCATGGCGT	CCGTCTCCCA	GGGTTCTGAT	CCGTCTCCTC	ACGGTGCAAT
	TTCCGAGGTG	TCGTACCGCA	GGCAGAGGGT	CCCAAGACTA	GGCAGAGGAG	TGCCACGTTA
3541	CAGGCAGGAC	AGAGAGGAGG	GCTGCAGGGC	TACCACATTG	ACCCAGAAGG	TATCTCCTCT
	GTCCGTCCTG	TCTCTCCTCC	CGACGTCCCG	ATGGTGTAAC	TGGGTCTTCC	ATAGAGGAGA
3601	CACCATTGAG	ACATCCATAA	GGAATGCCAA	ATGCTGTATT	GAATAGTTCT	CTGTGTGACT
	GTGGTAAGTC	TGTAGGTATT	CCTTACGGTT	TACGACATAA	CTTATCAAGA	GACACACTGA
	XbaI					
3661	TTCTAGAGAA	GCCAGGACAC	CCTGAGCCTT	TCCNGGGGAA	CTCTAAGGAG	TCACAGGTTC
	AAGATCTCTT	CGGTCTCTGT	GGACTCGGAA	AGGNCCCCCT	GAGATTCCTC	AGTGTCCAAG
3721	ACACCGTGGG	GATTTTCAGG	ATAGCATGGA	GACAGAGATC	CGGTCGTTGT	TCTCACTCGT
	TGTGGCACCC	CTAAAAGTCC	TATCGTACCT	CTGTCTCTAG	GCCAGCAACA	AGAGTGAGCA
3781	GAGCCTTGAG	AAGGAGAGAC	TGACCAGAAA	CACTCACTCA	GCACTCTGCA	GGAGCAGGAG
	CTCGGAACTC	TTCCTCTCTG	ACTGGTCTTT	GTGAGTGAGT	CGTGAGACGT	CCTCGTCCCTC
3841	AAGATACTTT	AAGATGAATC	TTGGATAGAT	TTTGATACAC	CCAATACCAT	ACACACAGGA
	TTCTATGAAA	TTCTACTTAG	AACCTATCTA	AAACTATGTG	GGTTATGGTA	TGTGTGTCCT
3901	GCTTGGCATT	TGCAAAGTCT	ATTCAGTTTC	CTTCCGCGCT	CTGACCCACG	GTTGTAGCGG
	CGAACCGTAA	ACGTTTCAGA	TAAGTCAAAG	GAAGGCGCGA	GACTGGGTGC	CAACATCGCC
3961	AGTGGGCTGA	ACACTGTAAC	ACTGTACATG	CGATTTCCCC	ATGGGCTTCT	AAATGTGCAC
	TCACCCGACT	TGTGACATTG	TGACATGTAC	GCTAAAGGGG	TACCCGAAGA	TTTTACAGTG
4021	CATCTCCTCC	CCTGCTGTGT	CCTACTCCAT	TTACTGGTTA	CAAGGTGATG	TCAACAAGAG
	GTAGAGGAGG	GGACGACACA	GGATGAGGTA	AATGACCAAT	GTTCCACTAC	AGTTGTTCTC

Figure 15 (con't)

PDE10a and RACES compiled

4081	AAGCTATCAC	AACACCAGGG	CTGTGCACAC	GTGCACACAC	ATGTATGCAC	AAGCACACAG
	TTCGATAGTG	TTGTGGTCCC	GACACGTGTG	CACGTGTGTG	TACATACGTG	TTCGTGTGTC
4141	ATGTATGTAC	AGCACACACA	CACACACACA	CCCCAAAAGG	AGAGAAAAGG	AAGAAAACAT
	TACATACATG	TCGTGTGTGT	GTGTGTGTGT	GGGGTTTTCC	TCTCTTTTCC	TTCTTTTGTA
4201	TTATAAAAAG	CGACAGCTAC	CCCATATCAA	AATAGTCTTT	CCTGTAGGAA	ACAGGAGCTC
	AATATTTTTT	GCTGTCGATG	GGGTATAGTT	TTATCAGAAA	GGACATCCTT	TGTCCTCGAG
4261	TCCATAAGGA	ATTATCATGA	GTGTGTTCTC	CCATCAGTGC	ACTCTCCCAG	GGGTGCTCAC
	AGGTATTCTT	TAATAGTACT	CACACAAGAG	GGTAGTCACG	TGAGAGGGTC	CCCACGAGTG
4321	TGAAGCTGGT	CCACRTCTAT	AAACAGGTGA	CACTGGCTGC	AGCAAAAAGC	CATTCCGATCC
	ACTTCGACCA	GGTGRAGATA	TTTGTCCACT	GTGACCGACG	TCGTTTTTCG	GTAAGCTAGG
4381	ACACAAATTG	ATCTTCTATC	ATCTTGGAAT	CTGAATTGCA	GGGAGGAGCA	GYATGTAAGA
	TGTGTTTAAAC	TAGAAGATAG	TAGAACCTTA	GACTTAAACGT	CCCTCCTCGT	CYTACATTCT
4441	CGACCGTTTA	ATTCAGGCAT	TCCGAAGGCA	TGAGCGCATG	GATTCTRTCA	CCAAGCGTAT
	GCTGGCAAAT	TAAGTCCGTA	AGGCTTCCGT	ACTCGCGTAC	CTAAGARAGT	GGTTCGCATA
4501	AAAAGGACCC	TGGCATTGGG	AAACCTATGA	CGGACTGTTT	TTGCTGTAGA	AGTAGGGATT
	TTTTCTGGG	ACCGTAACCC	TTTGATACT	GCCTGACAAA	AACGACATCT	TCATCCCTAA
4561	TTACAGAAGT	CTCCTTGRAT	TTGCCCTGCC	TGGGGCAGTT	TTGCAGAGGA	ACCTGCCAGA
	AATGTCTTCA	GAGGAACRTA	AACGGGACGG	ACCCCGTCAA	AACGTCTCCT	TGGACGGTCT
4621	GATTTATTGG	CTGGTCAGTC	TCTTGTGAAA	TAGTATCATG	TGAGAAACAG	TTTGTAGAAA
	CTAAATAACC	GACCAGTCAG	AGAACACTTT	ATCATAGTAC	ACTCTTTGTC	AAACATCTTT
4681	AAAACATATC	CTGGGAAGAC	CTTTGCAACA	TTGTTCCCTC	CATGGGCCAA	GACTCAGTTA
	TTTTGATATG	GACCCTTCTG	GAAACGTTGT	AACAAGGAAG	GTACCCGGTT	CTGAGTCAAT
4741	GGAGGCATAA	ATCTGCCCGG	AATAAACTAG	GCCAGGATAC	AGCCATGTTT	AGTTAATAAT
	CCTCCGTATT	TAGACGGGCC	TTATTTGATC	CGGTCCCTATG	TCGGTACAAA	TCAATTATTA
	EcoRI					
4801	TTGGTTTTAG	AATTCACACA	GGCAGGATTG	GTTTTTTTGT	GTCTTGGCAA	GTGGAGCATA
	AACCAAAATC	TTAAGTGTGT	CCGTCCTAAC	CAAAAAACA	CAGAACCGTT	CACCTCGTAT
4861	TTTAACATAC	AGGCATGGGA	ATCCTGCCCTC	TTAGCTTTTC	CCACCCTCTT	GTCTCACCAA
	AAATTGTATG	TCCGTACCCT	TAGGACGGAG	AATCGAAAAG	GGTGGGAGAA	CAGAGTGGTT
4921	GTTTTTTCTC	TCCAAAGGTT	TCCAGGAATT	TCTCATTAAT	GGCTGATGCA	AACTTAGTGA
	CAAAAAGAG	AGGTTTCCAA	AGGTCCTTAA	AGAGTAATTA	CCGACTACGT	TTGAATCACT
4981	ATAATAATGA	ATATAAACAA	TGCTCACCTC	ACCAAAATTA	TATTATTTGC	AGTCATTTGT
	TATTATTACT	TATATTTGTT	ACGAGTGGAG	TGGTTTAAAT	ATAATAAACG	TCAGTAAACA
5041	GATAACACAA	ATTTTATCGC	AATGGTTATT	ATTTAATTTG	TGGCCACACA	CTGTGGTTAT
	CTATTGTGTT	TAAAAATAGC	TTACCAATAA	TAAATTAAAC	ACCGGTGTGT	GACACCAATA
5101	CTTTTGTGTT	GGTTGTTTCT	GAGAAAATGT	TCTTGGATAT	GTAAGTGCCA	ATACCAGTGT
	GAAAACAACA	CCAACAAAGA	CTCTTTTACA	AGAACCTATA	CATTACGGGT	TATGGTCACA
5161	GAAGTATTGA	TCCCGGGCAG	CAAAATACAG	CCTAAGGTTT	GTAAACATCA	ATTCTATCTC
	CTTCATAACT	AGGGCCCGTC	GTTTTATGTC	GGATTCCAAA	CATTTGTAGT	TAAGATAGAG
5221	AGTTCATCAG	AGGGCCTGAG	AAGCTGCGGG	GCAGTGTAAG	GTAAAGTATG	CTGGGCTGGT
	TCAAGTAGTC	TCCCGGACTC	TTCGACGCCC	CGTCACATTT	CATTTCATAC	GACCCGACCA
5281	GGTGGTCAGC	CTCCCTTTCG	CAAGAAGAGA	GCAATTGAAT	CCTGTCCCCA	GCTCCCTCCA
	CCACCAGTCG	GAGGGGAACG	GTTCTTCTCT	CGTTAACTTA	GGACAGGGGT	CGAGGGAGGT
5341	CGCCTGAAGA	GTGACCAAGT	CTGGCCCCGAC	GGATCGCTGA	GATATTCTCC	CATAATGGCA
	GCGGACTTCT	CACTGGTCAC	GACCGGGCTG	CCTAGCGACT	CTATAAGAGG	GTATTACCGT
5401	AAAAAATAGG	CAGTTTGATG	TGACCTGTTT	AGTGTGGCTC	TCCTCTTTTG	AGCATGTGTT
	TTTTTTATCC	GTCAAACACT	ACTGGACAAA	TCACACCGAG	AGGAGAAAAC	TCGTACACAA

# Figure 15 (con't)

PDE10a and RACES compiled

5461	AGCATTTTTA	TTTTATACTC	ATCCAGTGAA	CTCTGCTCTT	CCAAGTGTGT	TCATGTATGT
	TCGTAAAAAT	AAAATATGAG	TAGGTCACCT	GAGACGAGAA	GGTTCACACA	AGTACATACA
5521	GCTAGATATA	TTAGCACAGC	CTGCCTTCTG	CTGCACAACG	CCTTAGAGAC	CCGGCCTTTC
	CGATCTATAT	AATCGTGTGC	GACGGAAGAC	GACGTGTTGC	GGAATCTCTG	GGCCGAAAG
5581	AATGAGCTTA	GCTTGTGCTC	TGTTTCTGCT	CTCTTAGGTC	TAAACTATGG	TGTCAGTTTT
	TTACTCGAAT	CGAACACGAG	ACAAAGACGA	GAGAATCCAG	ATTTGATACC	ACAGTCAAAA
5641	AATAGAACAA	AAGTATGCAT	CTTGCCCTTG	CTTGAGCCTT	TTCGTTTTCA	ATGCTGACTT
	TTATCTTGTT	TTCATACGTA	GAACGGAACC	GAACTCGGAA	AAGCAAAAGT	TACGACTGAA
5701	CTCCCTTTTC	TCTCCTGTGC	TCACCTTACC	TTTCCAGAGT	GTAAGGGACA	ACTTTTAAAGG
	GAGGGGAAAG	AGAGGACACG	AGTGGAAATGG	AAAGGTCTCA	CATTCCCTGT	TGAAAAATCC
5761	AGGCGTGTCC	CTGGTAGGGG	CATCCCTGTT	CACCAGGTGC	CTGTCATCAC	CCCCTTGAC
	TCCGCACAGG	GACCATCCCC	GTAGGGACAA	GTGGTCCACG	GACAGTAGTG	GGGTGAACTG
5821	TGACATCTAC	CCTGGTGACT	ATGGGTTCCCT	CTTGTTTGTA	GGGAACGGTG	GCTCCAGGTG
	ACTGTAGATG	GGACCACTGA	TACCCAAGGA	GAACAAACAT	CCCTTGCCAC	CGAGGTCCAC
5881	GAGGCATCAA	TCTGTTGGGT	TCTGGTTCCC	GGCTGCCTTT	GGTTTTGAAA	GTCTCTTCTC
	CTCCGTAGTT	AGACAACCCA	AGACCAAGGG	CCGACGGAAA	CCAAAACCTT	CAGAGAAGAG
5941	TGTATATTCC	TACCCTGCAT	TTGCTTTGTG	TGGTGCTGAT	GCTGTGGCAG	TAGGATCTTG
	ACATATAAGG	ATGGGACGTA	AACGAAACAC	ACCACGACTA	CGACACCGTC	ATCCTAGAAC
6001	GATGACTCTC	CATCAGTCAC	AGACTCCCCC	TGTTGCAAAG	TGTCAGGCTG	ACTCGACAGT
	CTACTGAGAG	GTAGTCAGTG	TCTGAGGGGG	ACAACGTTTC	ACAGTCCGAC	TGAGCTGTCA
6061	CACCGTAAAA	TCTGAGTCAG	TCACACACAG	GCTGTCAGCC	ACGGCTTCCA	CTTGCATGGC
	GTGGCATTIT	AGACTCAGTC	AGTGTGTGTC	CGACAGTCGG	TGCCGAAGGT	GAACGTACCG
6121	TATTCTATTT	TCACACGTGA	GTTTCTGTTG	CTGGCTGGCT	GACTGGCATT	ATCTATGCTA
	ATAAGATAAA	AGTGTGCACT	CAAAGACAAC	GACCGACCGA	CTGACCGTAA	TAGATACGAT
6181	AGTTGAAATC	AGGAGTGTGC	CCAGCAGAGC	CCATCATTCT	CAGTGTCTTT	GAAACAAAGC
	TCAACTTTAG	TCCTCACACG	GGTCGTCTCG	GGTAGTAAGA	GTGACAGAAA	CTTTGTTTCG
6241	TGTACGGTTT	GATCGATGAA	CGTATTTAAA	GCATTTTCATG	CAATGACAAA	GTGCTCAGTA
	ACATGCCAAA	CTAGCTACTT	GCATAAATTT	CGTAAAGTAC	GTTACTGTTT	CACGAGTCAT
6301	GTGGAAGGCA	GGCTGTGACC	AGTCTGCCTG	CTCCTTACTA	TAATTGTGAG	GATTTGTTAC
	CACCTTCCGT	CCGACACTGG	TCAGACGGAC	GAGGAATGAT	ATTAACACTC	CTAAACAATG
6361	TGGAACAGTA	CATGGAGGCC	TGACCTTGTG	GGGGCACAGG	GTGGAACCTT	AGCTGAATAT
	ACCTTGTCT	GTACCTCCGG	ACTGGAACAC	CCCCGTGTCC	CACCTTGGA	TCGACTTATA
6421	AGTGTGTGTC	TCAAGAGGAA	GTCAGGGTAC	TAGCTCAGTG	CTCAATCTCC	AGGTACTATA
	TCACACACAG	AGTTCTCCTT	CAGTCCCATG	ATCGAGTCAC	GAGTTAGAGG	TCCATGATAT
6481	TATACATTTG	CCCGTTTTAT	CTCTAATGTG	AAATAAATCC	CCAAACACTT	GTTTATCGTG
	ATATGTAAAC	GGGCAAAATA	GAGATTACAC	TTTATTTAGG	GGTTTGTGAA	CAAATAGCAC
6541	TAGCGTACCT	AAAAGACTAT	TCTATTATGG	GTGTCCCCAC	TTTCTTGGTT	TGGTCACCCC
	ATCGCATGGA	TTTTCTGATA	AGATAATACC	CACAGGGGTG	AAAGAACCAA	ACCAGTGGGG
			XbaI			
6601	GATCCCCCGG	TCTTCTGCTG	TATCTAGAAC	AGTGACTATA	AATGATGTAT	GGGAATAGTG
	CTAGGGGGCC	AGAAGACGAC	ATAGATCTTG	TAAGTATGAT	TTACTACATA	CCCTTATCAC
6661	TTTCCATATG	ATCTGTTGTC	TGGAGTATAT	GCTACATGTT	CATTTACTGT	ACAAAAACCC
	AAAGGTATAC	TAGACAACAG	ACCTCATATA	CGATGTACAA	GTAATGACA	TGTTTTTGGG
6721	AGTGCAGCTG	ATGATGCAAA	GCAGTCTCTC	TCTGTGTACA	GTGCCCCACC	TATTTAAAAA
	TCACGTGAC	TACTACGTTT	CGTCAGAGAG	AGACACATGT	CACGGGGTGG	ATAAATTTTT
6781	TCACGTACAA	NCCCAGAAC	CTGTGAAACA	CTTAACATAA	GAAACAAACG	CAGCGTCTGG
	AGTGCATGTT	NGGGTCTTGT	GACACTTTGT	GAATTGTATT	CTTTGTTTGC	GTGCGAGACC

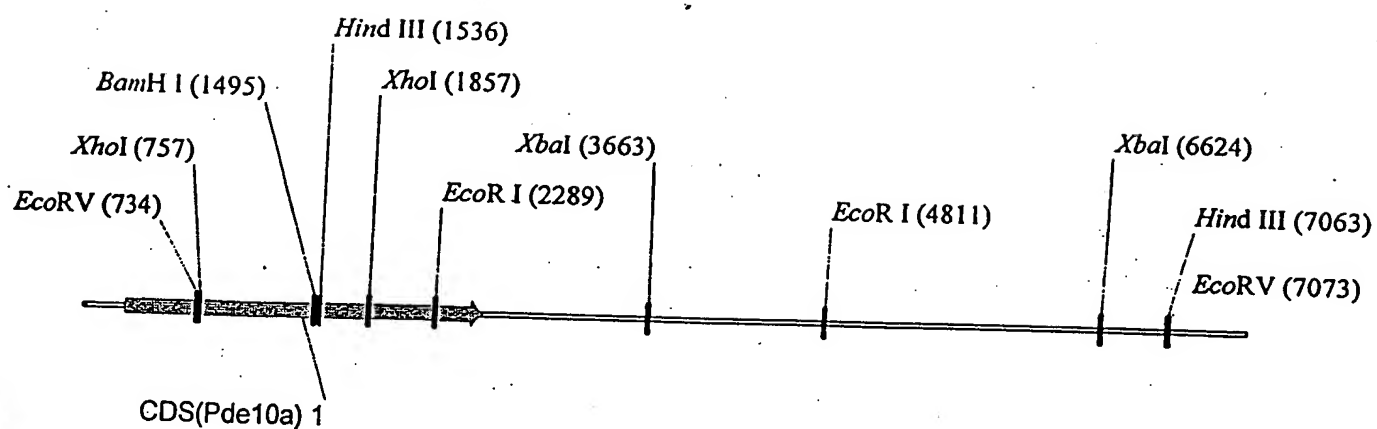
# Figure 15 (con't)

## PDE10a and RACEs compiled

6841	ATTCTTTCCA	AGGAGAGCAG	CTTCTCCAC	AGGAACACAG	TAACAAAAGA	GGTCCGCCGC
	TAAGAAAGGT	TCCTCTCGTC	GAAAGAGGTG	TCCTTGTC	ATTGTTTTCT	CCAGGCGGCG
6901	CATCCACACC	CAGCCAAGAC	ACCTCAGAGG	CCATAGGGAC	AACCTCCTTG	CTGGCCAACA
	GTAGGTGTGG	GTCGGTCTG	TGGAGTCTCC	GGTATCCCTG	TTGGAGGAAC	GACCGGTTGT
6961	CCTGCTGGAG	CAGGGCACAG	GTCCACAGCA	CTGATCCTCA	GTGGATGGGT	CCGCAGTCAA
	GGACGACCTC	GTCCCGTGTC	CAGGGTCGTT	GACTIONAGT	CACCTACCCA	GGCGTCAGTT
					HindIII	EcoRV
7021	AGCCTTAATG	GGCTCTCTTT	TGAAGGGGAA	AGAAANNTTT	CAAGCTTATG	ATATCCAACA
	TCGGAATTAC	CCGAGAGAAA	ACTTCCCCTT	TCTTTNNAAA	GTTCGAATAC	TATAGGTTGT
7081	TTATTATAGT	TGATGAGTTA	GTAATTCCG	AAAAAAAAAG	ATGATTTTAT	ATGTATGACA
	AATAATATCA	ACTACTCAAT	CATTTAAGGC	TTTTTTTTTC	TACTAAAATA	TACATACTGT
7141	TAAAAAAAT	CTTTGTAAAG	TGCGCAAGTG	CAATAATTTA	AAGAGGTCTT	ATCTTTGCAT
	ATTTTTTTTA	GAAACATTC	ACGCGTTCAC	GTTATTAAAT	TTCTCCAGAA	TAGAAACGTA
7201	TTATAAATTA	TAAATATTGT	ACATGTGTGT	AATTTTTCAT	GTATTCATTT	GCAGTCTTTG
	AATATTTAAT	ATTTATAACA	TGTACACACA	TTAAAAAGTA	CATAAGTAAA	CGTCAGAAAC
7261	TATTTAAAAA	AACTTTACTG	TTATGTTTGT	ATAATAGAAC	ATTAATCATT	TATTATAACT
	ATAAATTTTT	TTGAAATGAC	AATACAAACA	TATTATCTTG	TAATTAGTAA	ATAATATTGA
7321	CAGACAAGGT	GTAAATAAAT	TCATAATTCA	AACAGCCAGT	ATATATGCAT	ATATGGGTGT
	GTCTGTTCCA	CATTTATTTA	AGTATTAAGT	TTGTCGGTCA	TATATACGTA	TATACCCACA
7381	TACATTGCAA	AAATCTCTAT	CTTTGTTCTA	TTCACATGCT	TAAAGAAGTA	AGAAATCTTT
	ATGTAACGTT	TTTAGAGATA	GAAACAAGAT	AAGTGTACGA	ATTTCTTCAT	TCTTTAGAAA
7441	TGTGGATATG	TAATTATACA	TATAAAGTAT	ATATATATGT	ATGATACATG	AAATATATTT
	ACACCTATAC	ATTAATATGT	ATATTTTATA	TATATATACA	TACTATGTAC	TTTATATAAA
7501	AGAAATGTTT	ATAATTTTAA	TGGATATTCT	TTGGTGTGAA	TAATTGAATA	CAACATTTTT
	TCTTTACAAG	TATTAATAAT	ACCTATAAGA	AACCACACTT	ATTAACCTAT	GTTGTAAAAA
7561	AAAATGAAAA	AAAAAAAAAA	C			
	TTTTACTTTT	TTTTTTTTTT	G			



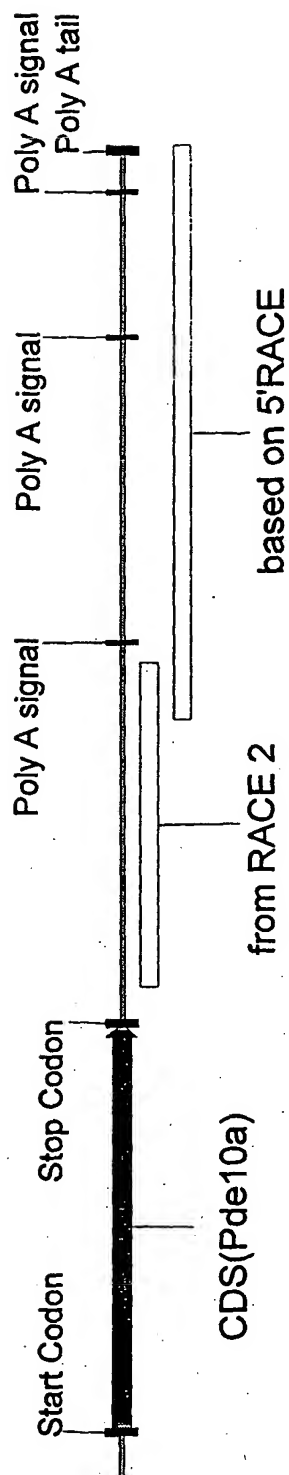
Figure 16



PDE10a and RACEs compiled  
7581 bp

Figure 17

## PDE10A compiled - coding sequence and features

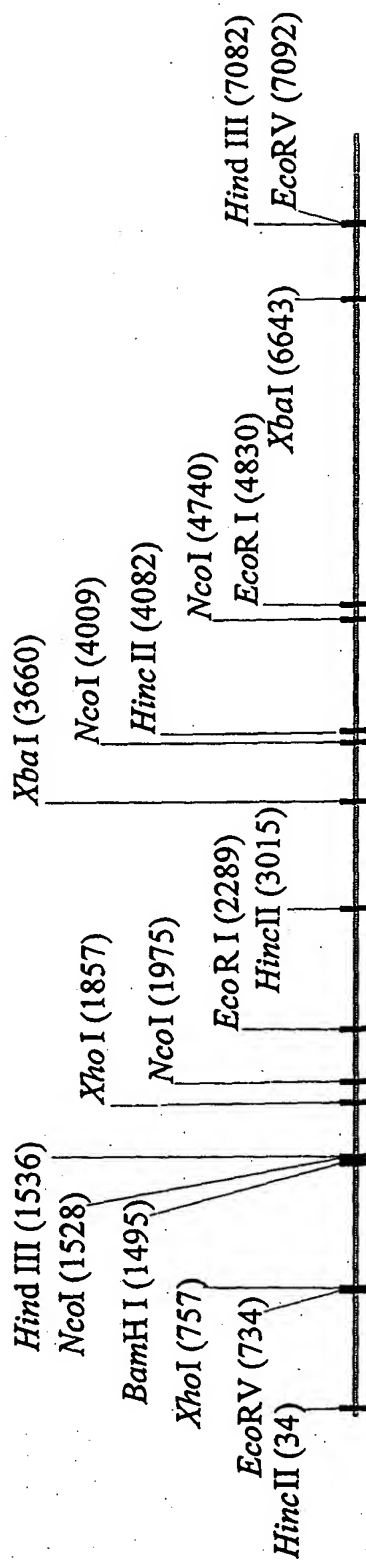


**PDE10A compiled**

7618 bp

Figure 18

## PDE10A compiled - restriction sites



**PDE10A compiled**

7618 bp

# Figure 19

PDE10A compiled

1	CGCCCGGGCA	GGTCTGTTGG	AGGGCAGTTG	GTCAACCTGA	CCAGAGAGAG	CTGAGCTGGA
	GCGGGCCCGT	CCAGACAACC	TCCCGTCAAC	CAGTTGGACT	GGTCTCTCTC	GACTCGACCT
61	AGACCCCACT	GATGGTGTGC	TGCCTTTTCAG	TCCAGGAAGA	AAGAAAGGAA	GGATTCTGAG
	TCTGGGGTGA	CTACCACACG	ACGGAAAGTC	AGGTCTTTCT	TTCTTTTCCTT	CCTAAGACTC
121	GATTTGGGCA	AAGCCACATT	CCTGGAGAAG	TCTGTATACT	GATGCCAAAC	CCAAGAGCTG
	CTAAACCCGT	TTCGGTGTAA	GGACCTCTTC	AGACATATGA	CTACGGTTTG	GGTTCTCGAC
181	AGCTGCTGAT	GAGGCCCAGG	GAGTAGCCCA	CGCGCCCTGA	GCTGTTGGCT	AGCAAGGCCT
	TCGACGACTA	CTCCGGGTCC	CTCATCGGGT	GCGCGGGACT	CGACAACCGA	TCGTTCCGGA
241	TCCTGCTCCA	TGTGGCATGG	AAAAATTATA	TGGTTTGACG	GATGAAAAGG	TGAAGGCCCTA
	AGGACGAGGT	ACACCGTACC	TTTTTAATAT	ACCAAACCTGC	CTACTTTTCC	ACTTCCGGAT
301	TCTTTCTCTC	CATCCCCAGG	TATTAGATGA	ATTTGTTTCT	GAAAGTGTTA	GTGCAGAGAC
	AGAAAGAGAG	GTAGGGGTCC	ATAATCTACT	TAAACAAAGA	CTTTCACAAT	CACGTCTCTG
361	TGTGGAAGG	TGGCTGAAGA	GGAAAACCAA	CAAAGCAAAA	GATGAACCAT	CTCCCAAGGA
	ACACCTTTTC	ACCGACTTCT	CCTTTTGGTT	GTTTCGTTTT	CTACTTGGTA	GAGGGTTTCT
421	AGTCAGCAGG	TACCAGGATA	CGAATATGCA	GGGAGTCGTG	TACGAGCTGA	ACAGCTACAT
	TCAGTCGTCC	ATGGTCCAT	GCTTATACGT	CCCTCAGCAC	ATGCTCGACT	TGTCGATGTA
481	AGAGCAGCGC	CTGGACACGG	GCGGGGACAA	CCACCTGCTC	CTCTATGAGC	TCAGCAGCAT
	TCTCGTCGCG	GACCTGTGCC	CGCCCTGTT	GGTGGACGAG	GAGATACTCG	AGTCGTCGTA
541	CATCAGGATA	GCCACAAAAG	CCGACGGATT	TGCACTGTAC	TTCTTGGAG	AGTGCAATAA
	GTAGTCCTAT	CGGTGTTTTT	GGCTGCCTAA	ACGTGACATG	AAGGAACCTC	TCACGTTATT
601	TAGCCTGTGT	GTGTTCATAC	CACCCGGGAT	GAAGGAAGGC	CAACCCCGGC	TCATCCCTGC
	ATCGGACACA	CACAAGTATG	GTGGGCCCTA	CTTCCTTCCG	GTTGGGGCCG	AGTAGGGACG
661	AGGGCCCATC	ACCCAGGGTA	CCACCATCTC	TGCCTACGTG	GCCAAGTCTA	GGAAGACGTT
	TCCCGGGTAG	TGGGTCCCAT	GGTGGTAGAG	ACGGATGCAC	CGGTTCAGAT	CCTTCTGCAA
721	GTTGGTAGAG	GATATCCTTG	GGGATGAGCG	ATTTCTCGA	GGTACTGGCC	TGGAATCAGG
	CAACCATCTC	CTATAGGAAC	CCCTACTCGC	TAAAGGAGCT	CCATGACCGG	ACCTTAGTCC
781	AACCCGCATC	CAGTCTGTTT	TTTGCTTGCC	CATTGTCACT	GCCATTGGAG	ACTTGATTGG
	TTGGGCGTAG	GTCAGACAAG	AAACGAACGG	GTAACAGTGA	CGGTAACCTC	TGAACTAACC
841	CATCCTTGAA	CTGTACAGGC	ACTGGGGCAA	AGAGGCCTTC	TGCCTCAGCC	ATCAGGAGGT
	GTAGGAACCT	GACATGTCCG	TGACCCCGTT	TCTCCGGAAG	ACGGAGTCGG	TAGTCTCCA
901	TGCAACAGCC	AATCTTGCTT	GGGCTTCCGT	AGCAATACAC	CAGGTGCAGG	TGTGTAGAGG
	ACGTTGTCGG	TTAGAACGAA	CCCGAAGGCA	TCGTTATGTG	GTCCACGTCC	ACACATCTCC
961	TCTCGCCAAA	CAGACCGAAC	TGAATGACTT	CCTACTCGAC	GTATCAAAGA	CATACTTTGA
	AGAGCGGTTT	GTCTGGCTTG	ACTTACTGAA	GGATGAGCTG	CATAGTTTCT	GTATGAAACT
1021	TAACATAGTT	GCCATAGACT	CTCTACTTGA	ACACATCATG	ATATATGCAA	AAAATCTAGT
	ATTGTATCAA	CGGTATCTGA	GAGATGAACT	TGTGTAGTAC	TATATACGTT	TTTTAGATCA
1081	GAACGCCGAC	CGCTGCGCGC	TCTTCCAGGT	GGACCACAAG	AACAAGGAGC	TGTAATCGGA
	CTTGCGGCTG	GCGACGCGCG	AGAAGGTCCA	CCTGGTGTTT	TTGTTCCCTG	ACATGAGCCT
1141	CCTGTTTGAC	ATTGGGGAGG	AGAAGGAGGG	GAAGCCCATC	TTCAAGAAGA	CCAAGGAGAT
	GGACAAACTG	TAACCCCTCC	TCTTCTCTCC	CTTCGGGTAG	AAGTTCTTCT	GGTTCTCTTA
1201	CAGATTTTCC	ATTGAGAAAG	GGATTGCTGG	TCAAGTGGCA	AGAACAGGCG	AAGTCTTGAA
	GTCTAAAAGG	TAACCTTTTC	CCTAACGACC	AGTTCACCGT	TCTTGTCCGC	TTCAGAACTT
1261	CATTCCCGAT	GCCTACGCGG	ACCCTCGCTT	TAACAGGGAG	GTGGACCTGT	ACACAGGCTA
	GTAAGGGCTA	CGGATGCGCC	TGGGAGCGAA	ATTGTCCCTC	CACCTGGACA	TGTGTCCGAT
1321	CACCACGAGG	AACATTCTGT	GTATGCCCAT	AGTGAGCCGA	GGCAGCGTGA	TGGCGTGGT
	GTGGTGCTCC	TTGTAAGACA	CATACGGGTA	TCACTCGGCT	CCGTCGCACT	AACCGCACCA

# Figure 19 (con't)

PDE10A compiled

1381	GCAGATGGTG	AACAAGATCA	GCGGTAGCGC	CTTCTCCAAG	ACAGACGAGA	ACAACTTCAA
	CGTCTACCAC	TTGTTCTAGT	CGCCATCGCG	GAAGAGGTTC	TGTCTGCTCT	TGTTGAAGTT
1441	GATGTTTGCT	GTCTTCTGCG	CACTGGCCTT	GCACTGTGCT	AACATGTACC	ACAGGATCCG
	CTACAAACGA	CAGAAGACGC	GTGACCGGAA	CGTGACACGA	TTGTACATGG	TGTCCTAGGC
1501	CCACTCAGAA	TGCATCTACA	GGGTACCAT	GGAGAAGCTT	TCCTACCACA	GCATCTGCAC
	GGTGAGTCTT	ACGTAGATGT	CCCAATGGTA	CCTCTTCGAA	AGGATGGTGT	CGTAGACGTG
1561	CTCCGAGGAG	TGGCAAGGCC	TCATGCGCTT	CAACCTACCA	GCACGCATCT	GCCGGGACAT
	GAGGCTCCTC	ACCGTTCCGG	AGTACGCGAA	GTTGGATGGT	CGTGCGTAGA	CGGCCCTGTA
1621	CGAGCTATTC	CACCTTGACA	TTGGTCCTTT	CGAGAACATG	TGGCCTGGGA	TCTTTGTCTA
	GCTCGATAAG	GTGAAACTGT	AACCAGGAAA	GCTCTTGATC	ACCGGACCCT	AGAAACAGAT
1681	CATGATCCAT	CGGTCTTG TG	GGACATCCTG	TTTTGAACTT	GAAAAATTGT	GCCGTTTTAT
	GTACTAGGTA	GCCAGAACAC	CCTGTAGGAC	AAAACTTGAA	CTTTTTAACA	CGGCAAAATA
1741	CATGTCTGTG	AAGAAGAACT	ATCGGCGGGT	TCCTTACCAC	AACTGGAAGC	ATGCAGTCAC
	GTACAGACAC	TTCTTCTTGA	TAGCCGCCCA	AGGAATGGTG	TTGACCTTCG	TACGTCAGTG
1801	GGTGGCACAC	TGCATGTATG	CCATACTTCA	AAACAACAAT	GGCCTCTTCA	CAGACCTCGA
	CCACCGTGTG	ACGTACATAC	GGTATGAAGT	TTTGTGTGTA	CCGGAGAAGT	GTCTGGAGCT
1861	GCGCAAAGGC	CTGCTAATTG	CGTGTCTGTG	CCATGACCTG	GACCACAGGG	GCTTCAGTAA
	CGCGTTTCCG	GACGATTAAC	GCACAGACAC	GGTACTGGAC	CTGGTGTCCC	CGAAGTCATT
1921	CAGCTACCTG	CAGAAGTTCG	ACCACCCCTT	GCGGGCGCTG	TACTCCACCT	CCACCATGGA
	GTGATGGAC	GTCTTCAAGC	TGGTGGGGGA	CCGCCGCGAC	ATGAGGTGGA	GGTGGTACCT
1981	GCAACACCAC	TTCTCCAGAG	CGGTGTCCAT	CCTTCAGCTG	GAAGGGCACA	ATATCTTCTC
	CGTTGTGGTG	AAGAGGGTCT	GCCACAGGTA	GGAAGTCGAC	CTTCCCGTGT	TATAGAAGAG
2041	CACCCTGAGC	TCCAGCGAGT	ACGAGCAGGT	GCTGGAGATC	ATCCGCAAAG	CCATCATCGC
	GTGGGACTCG	AGGTCGCTCA	TGCTCGTCCA	CGACCTCTAG	TAGGCGTTTC	GGTAGTAGCG
2101	CACCGACCTC	GCCCTATACT	TTGGGAACAG	GAAGCAGTTG	GAGGAGATGT	ACCAGACAGG
	GTGGCTGGAG	CGGGATATGA	AACCCTTGTC	CTTCGTCAAC	CTCCTCTACA	TGGTCTGTCC
2161	GTCGCTGAAC	CTCCACAACC	AGTCCCATCG	AGACCGTGTC	ATCGGCTTGA	TGATGACTGC
	CAGCGACTTG	GAGGTGTTGG	TCAGGGTAGC	TCTGGCACAG	TAGCCGAACT	ACTACTGACG
2221	CTGTGATCTT	TGCTCTGTGA	CCAACTATG	GCCAGTTACA	AAATTGACAG	CGAATGATAT
	GACACTAGAA	ACGAGACACT	GGTTTGATAC	CGGTCAATGT	TTTAACTGTC	GCTTACTATA
2281	ATATGCAGAA	TTCTGGGCTG	AGGGTGATGA	GATGAAGAAG	CTGGGCATAC	AGCCCATTCC
	TATACGTCTT	AAGACCCGAC	TCCCACTACT	CTACTTCTTC	GACCCGTATG	TCGGGTAAAGG
2341	TATGATGGAC	AGAGACAAGC	GAGATGAAGT	CCCTCAAGGG	CAGCTCGGAT	TCTACAATGC
	ATACTACCTG	TCTCTGTTTG	CTCTACTTCA	GGGAGTTCCC	GTCGAGCCTA	AGATGTTACG
2401	TGTGGCCATT	CCCTGCTATA	CCACCTTGAC	GCAGATCCTC	CCACCCACAG	AGCCTCTGCT
	ACACCGGTAA	GGGACGATAT	GGTGGAAGT	CGTCTAGGAG	GGTGGGTGTC	TCGGAGACGA
2461	GAAGGCCTGC	AGGGATAACC	TCAATCAGTG	GGAGAAGGTA	ATTGCGGGGG	AAGAGACAGC
	CTTCCGGACG	TCCCTATTGG	AGTTAGTCAC	CCTCTTCCAT	TAAGCGCCCC	TTCTCTGTCTG
2521	AATGTGGATT	TCAGGCCAG	GCCCGGCGCC	TAGCAAGAGC	ACACCTGAGA	AGCTGAACGT
	TTACACCTAA	AGTCCGGGTC	CGGGCCGCGG	ATCGTTCTCG	TGTGGACTCT	TCGACTTGCA
2581	GAAGGTGAA	GACTGATCCT	GAAGTGACGT	CCTGATGTCT	GCCCAGCAAC	CGACTCAACC
	CTTCCAACCT	CTGACTAGGA	CTTCACTGCA	GGACTACAGA	CGGGTCGTTG	GCTGAGTTGG
2641	TGCTTCTGTG	ACTTCGTTCT	TTTTGTTTTT	AAGGGGTGAA	AACCCCTGT	CAGAAGGTAC
	ACGAAGACAC	TGAAGCAAGA	AAAACAAAAG	TTCCCCACTT	TTGGGGGACA	GTCTTCCATG
2701	CGTCGCATAT	CCATGTGAAG	CAGACGACTC	CCTGCTTGCC	GCACACACCT	CGGACAGTGA
	GCAGCGTATA	GGTACACTTC	GTCTGCTGAG	GGACGAACGG	CGTGTGTGGA	GCCTGTCACT

Figure 19 (con't)

PDE10A compiled

2761	GCAACCCAGG	CTCTGCCGTG	TTCAGACGTC	GGCTACTCCG	TGGCTCCACC	TGACCTCCGA
	CGTTGGGTCC	GAGACGGCAC	AAGTCTGCAG	CCGATGAGGC	ACCGAGGTGG	ACTGGAGGCT
2821	ATGCTATTTG	CTCCCAGGCC	AGCACTGCAC	TGTCTGGAGG	GGGCAGAGAC	CACAGGAGAG
	TACGATAAAC	GAGGGTCCGG	TCGTGACGTG	ACAGACCTCC	CCCGTCTCTG	GTGTCCTCTC
2881	GTTCTTGCCCT	GCATCCTCCC	ATGAGGGTGT	GGCCAGTTCC	CTAGTTCTGT	GCCATGCTGC
	CAAGAACGGA	CGTAGGAGGG	TACTCCCACA	CCGGTCAAGG	GATCAAGACA	CGGTACGACG
2941	TGCTTGGTGG	CATTGGTTAG	GAATGGGACA	CACGCCCTT	GTTGTGAAGT	TTACATGTGA
	ACGAACCACC	GTAACCAATC	CTTACCCTGT	GTGCGGGGAA	CAACACTTCA	AATGTACACT
3001	CCTTCTTATA	GGTAACTGA	GTTTGTGGCC	TGGGACACAT	GTAATGAAGG	TCACAGTCCA
	GGAAGAATAT	CCAATTGACT	CAAACACCGG	ACCCTGTGTA	CATTACTTCC	AGTGTACAGT
3061	CAGGTGACAG	AGAAATCCAA	ACTGTTGATT	ACAGGTGCAC	TACAGGTATG	CTCTTTTCACT
	GTCCACTGTC	TCTTTAGGTT	TGACAACTAA	TGTCCACGTG	ATGTCCATAC	GAGAAAGTCA
3121	CTATCTGGGG	GCACATAGGT	GAGTCTGCTC	CACCTCAGAAG	GAAGCATACC	TCTSCCCTCA
	GATAGACCCC	CGTGTATCCA	CTCAGACGAG	GTGAGTCTTC	CTTCGTATGG	AGASGGGAGT
3181	TCCAGGGGAC	ACAGGGTACA	TCCCAGGCAT	CGGGGAAC TG	AAGCTCTCAC	TTCAAACCAT
	AGGTCCCCTG	TGTCCCATGT	AGGGTCCGTA	GCCCCTTGAC	TTCGAGAGTG	AAGTTTGGTA
3241	GTCAAAGAAT	TAAAAACCT	CCCCTCCCC	TCACTGTAGC	CTTCGGCAAC	TGCGCCAATC
	CAGTTTCTTA	ATTTTGTGGA	GGGGAGGGGG	AGTGACATCG	GAAGCCGTTG	ACGCGGTTAG
3301	CCTTTATACA	AAGAAAATAT	AAGTAAGGCA	TATAAATTTT	CTCCAGCAAG	CAAATCTTGT
	GGAAATATGT	TTCTTTTATA	TTCATTCCGT	ATATTTAAAG	GAGGTCGTTT	GTTTAGAACA
3361	GGGTAAAAAA	AAAAATGTG	AATTTTAACA	ACCTCTATAT	TTTCACTGTA	TGTTATGGCA
	CCCATTTTTT	TTTTTTACAC	TTAAAATTGT	TGGAGATATA	AAAGTGACAT	ACAATACCGT
3421	GAATTTTAGT	CACGTCCAAA	ACAAAAGATT	ATTCCAGAAG	ATACCTCATC	CTATGCCTGA
	CTTAAAATCA	GTGCAGGTTT	TGTTTTCTAA	TAAGGTCTTC	TATGGAGTAG	GATACGGACT
3481	AAGCTCCACA	GCATGGCGTC	CGTCTCCAG	GGTCTGATC	CGTCTCCTCA	CGGTGCAATC
	TTCGAGGTGT	CGTACCGCAG	GCAGAGGGTC	CCAAGACTAG	GCAGAGGAGT	GCCACGTTAG
3541	AGGCAGGACA	GGAGGAGGTG	CAGGGCTACC	ACATTGACCC	AGATGGTATC	TCCTCTCACC
	TCCGTCTGT	CCTCCTCCAC	GTCCCGATGG	TGTAAC TGGG	TCTACCATAG	AGGAGAGTGG
3601	ATTGAGACAT	CCATAAGGAA	TGCCAAATGC	TGTATTGAAT	AGTTCTCCTG	TGTGACTTTC
	TAAGTCTGTA	GGTATTCCTT	ACGGTTTACG	ACATAACTTA	TCAAGAGGAC	ACACTGAAAG
3661	TAGAGAAGCC	AGGACACCCC	TGAGCCTTTC	CTGGGAAC TC	CTAAGGAAGT	CACAGGTTCA
	ATCTCTTCGG	TCCTGTGGGG	ACTCGGAAAG	GACCCTTGAG	GATTCTTCA	GTGTCCAAGT
3721	CACCGTGGGG	ATTTTCAGGA	TAGCATGGAG	ACCAGAGAAT	CCCGGTTCCG	TTGTTCTCAC
	GTGGCACCCC	TAAAAGTCCT	ATCGTACCTC	TGGTCTCTTA	GGGCCAAGCC	AACAAGAGTG
3781	TCGGTGAGCC	TTGAGAAGGA	AGAGACTGAC	CAGAAACACT	CACTCAGCAC	TCTGGCAGGA
	AGCCACTCGG	AACTCTTCCT	TCTCTGACTG	GTCTTTGTGA	GTGAGTCGTG	AGACCGTCCT
3841	GCAGGAGAAG	ATACTTTAAG	ATGAATCTTT	GGGATAGATT	TTGATACACC	CAATACCATA
	CGTCCTCTTC	TATGAAATTC	TACTTAGAAA	CCCTATCTAA	AACTATGTGG	GTTATGGTAT
3901	CACACAGGAG	CTTGGCATT	GCAAAGTCTA	TTCAGTTTCC	TTCCACACTC	TGACCCACGG
	GTGTGTCCTC	GAACCGTAAA	CGTTTCAGAT	AAGTCAAAGG	AAGGTGTGAG	ACTGGGTGCC
3961	TTGTAGCGGA	GTGGGCTGAA	CACTGTAACA	CTGTACATGC	GATTTCCCCA	TGGGCTTCTA
	AACATCGCCT	CACCCGACTT	GTGACATTGT	GACATGTACG	CTAAAGGGGT	ACCCGAAGAT
4021	AAATGTCACC	ATCTCCTCCC	CTGCTGTGTC	CTACTCCATT	TACTGGTTAC	AAGGTGATGT
	TTTACAGTGG	TAGAGGAGGG	GACGACACAG	GATGAGGTAA	ATGACCAATG	TTCCACTACA
4081	CAACAAGAGA	AGCTATCACA	ACACCAGGGC	TGTGCACACG	TGCACACACA	TGTATGCACA
	GTTGTTCTCT	TCGATAGTGT	TGTGGTCCCG	ACACGTGTGC	ACGTGTGTGT	ACATACGTGT

Figure 19 (con't)

PDE10A compiled

4141	AGCACACAGA	TGTATGTACA	GCACACACAC	ACACACACAC	CCCCAAAAGGA	GAGAAAAGGA
	TCGTGTGTCT	ACATACATGT	CGTGTGTGTG	TGTGTGTGTG	GGGTTTTTCT	CTCTTTTCTT
4201	AGAAAAACATT	TATAAAAAGC	GACAGCTACC	CCCATATTCA	AAAATAGTTC	TTTTCCCTGT
	TCTTTTGTA	ATATTTTTCG	CTGTCGATGG	GGGTATAAGT	TTTTATCAAG	AAAAGGGACA
4261	AGGGAAACAG	GTAGCTCTCC	ATAAGGAAAT	TATCATGAGT	GTGTTCTCCC	ATCAGTGCAC
	TCCCTTTGTC	CATCGAGAGG	TATTCCTTTA	ATAGTACTCA	CACAAGAGGG	TAGTCACGTG
4321	TTCTCCCAGG	GGTGCTCACT	GAAGCTGGTC	CACGTCTATA	AACAGGTGAC	ACTGGCTGCA
	AAGAGGGTCC	CCACGAGTGA	CTTCGACCAG	GTGCAGATAT	TTGTCCACTG	TGACCGACGT
4381	GCAAAAAGCC	ATTCGATCCA	CACAAATTGA	TCTTCTATCA	TCTTGGAATC	TGAATTGCAG
	CGTTTTTCGG	TAAGCTAGGT	GTGTTTAACT	AGAAGATAGT	AGAACCCTAG	ACTTAACGTC
4441	GGAGGAGCAG	CATGTAAGAC	GACCGTTTAA	TTCAGGCATT	CCGAAGGCAT	GAGCGCATGG
	CCTCCTCGTC	GTACATTCTG	CTGGCAAATT	AAGTCCGTAA	GGCTTCCGTA	CTCGCGTACC
4501	ATTCTGTCAC	CAAGCGTATA	AAAGGACCCT	GGCATTGGGA	AACCTATGAC	GGACTGTTTT
	TAAGACAGTG	GTTCGCATAT	TTTCCTGGGA	CCGTAACCCCT	TTGGATACTG	CCTGACAAAA
4561	TGCTGTAGAA	GTAGGGATTT	TACAGAAGTC	TCCTTGGATT	TGCCCTGCCT	GGGGCAGTTT
	ACGACATCTT	CATCCCTAAA	ATGTCTTCAG	AGGAACCTAA	ACGGGACGGA	CCCCGTCAAA
4621	TGCAGAGGAA	CCTGCCAGAG	ATTTATTGGC	TGGTCAGTCT	CTTGTGAAAT	AGTATCATGT
	ACGTCTCCTT	GGACGGTCTC	TAAATAACCG	ACCAGTCAGA	GAACACTTTA	TCATAGTACA
4681	GAGAAACAGT	TTGTAGAAAA	AAACTATACC	TGGGAAGACC	TTTGCAACAT	TGTTCCTTCC
	CTCTTTGTCA	AACATCTTTT	TTTGATATGG	ACCCTTCTGG	AAACGTTGTA	ACAAGGAAGG
4741	ATGGGCCAAG	ACTCAGTTAG	GAGGCATAAA	TCTGCCCGGA	ATAAACTAGG	CCAGGATACA
	TACCCGGTTC	TGAGTCAATC	CTCCGTATTT	AGACGGGCCT	TATTTGATCC	GGTCCTATGT
4801	GCCATGTTTA	GTTAATAATT	TGGTTTTAGA	ATTCACACAG	GCAGGATTGG	TTTTTTTGTG
	CGGTACAAAT	CAATTATTAA	ACCAAAATCT	TAAGTGTGTC	CGTCCTAACC	AAAAAACAC
4861	TCTTGGAAG	TGGAGCATAT	TTAACATACA	GGCATGGGAA	TCCTGCCTCT	TAGCTTTTCC
	AGAACCGTTC	ACCTCGTATA	AATTGTATGT	CCGTACCCTT	AGGACGGAGA	ATCGAAAAGG
4921	CACCCCTTG	TCTACCAAG	TTTTTTCTCT	CCAAAGGTTT	CCAGGAATTT	CTCATTAATG
	GTGGGAGAAC	AGAGTGGTTC	AAAAAAGAGA	GGTTTCCAAA	GGTCCTTAAA	GAGTAATTAC
4981	GCTGATGCAA	ACTTAGTGAA	TAATAATGAA	TATAAACAAAT	GCTCACCTCA	CCAAAATTAT
	CGACTACGTT	TGAATCACTT	ATTATTACTT	ATATTTGTTA	CGAGTGGAGT	GGTTTTAATA
5041	ATTATTTGCA	GTCATTTGTG	ATAACACAAA	TTTTATCGCA	ATGGTTATTA	TTTAATTTGT
	TAATAAACGT	CAGTAAACAC	TATTGTGTTT	AAAATAGCGT	TACCAATAAT	AAATTAAACA
5101	GGCCACACAC	TGTGGTTATC	TTTTGTTGTG	GTTGTTTCTG	AGAAAATGTT	CTTGATATG
	CCGGTGTGTG	ACACCAATAG	AAAACAACAC	CAACAAAGAC	TCTTTTACAA	GAACCTATAC
5161	TAAGTGCCAA	TACCAGTGTG	AAGTATTGAT	CCCGGGCAGC	AAAATACAGC	CTAAGGTTTG
	ATTCACGGTT	ATGGTCACAC	TTCATAACTA	GGGCCCGTCG	TTTTATGTCT	GATTCCAAAC
5221	TAAACATCAA	TTCTATCTCA	GTTTCATCAGA	GGCCTGAGA	AGCTGCGGGG	CAGTGTAAG
	ATTTGTAGTT	AAGATAGAGT	CAAGTAGTCT	CCCGGACTCT	TCGACGCCCC	GTCACATTTT
5281	TAAAGTATGC	TGGGCTGGTG	GTGGTCAGCC	TCCCCTTGCC	AAGAAGAGAG	CAATTGAATC
	ATTTCATACG	ACCCGACCAC	CACCACTCGG	AGGGGAACGG	TTCTTCTCTC	GTTAACCTAG
5341	CTGTCCCAG	CTCCCTCCAC	GCCTGAAGAG	TGACCAGTGC	TGGCCCGACG	GATCGCTGAG
	GACAGGGGTC	GAGGGAGGTG	CGGACTTCTC	ACTGGTCACG	ACCGGGCTGC	CTAGCGACTC
5401	ATATTCTCCC	ATAATGGCAA	AAAAATAGGC	AGTTTGATGT	GACCTGTTTA	GTGTGGCTCT
	TATAAGAGGG	TATTACCGTT	TTTTTATCCG	TCAAACCTACA	CTGGACAAAT	CACACCGAGA
5461	CCTCTTTTGA	GCATGTGTTA	GCATTTTTAT	TTTATACTCA	TCCAGTGAAC	TCTGCTCTTC
	GGAGAAAAC	CGTACACAAT	CGTAAAAATA	AAATATGAGT	AGGTCACTTG	AGACGAGAAG

# Figure 19 (con't)

PDE10A compiled

5521	CAAGTGTGTT	CATGTATGTG	CTAGATATAT	TAGCACAGCC	TGCCTTCTGC	TGCACAACGC
	GTTACACAAA	GTACATACAC	GATCTATATA	ATCGTGTCGG	ACGGAAGACG	ACGTGTTGCG
5581	CTTAGAGACC	CGGCCTTTCA	ATGAGCTTAG	CTTGTGCTCT	GTTTCTGCTC	TCTTAGGTCT
	GAATCTCTGG	GCCGGAAAGT	TACTCGAATC	GAACACGAGA	CAAAGACGAG	AGAATCCAGA
5641	AAACTATGGT	GTCAGTTTTA	ATAGAACAAA	AGTATGCATC	TTGCCTTGGC	TTGAGCCTTT
	TTTGATACCA	CAGTCAAAAT	TATCTTGTTT	TCATACGTAG	AACGGAACCG	AACTCGGAAA
5701	TCGTTTTTCAA	TGCTGACTTC	TCCCTTTTCT	CTCCTGTGCT	CACCTTACCT	TTCCAGAGTG
	AGCAAAAGTT	ACGACTGAAG	AGGGGAAAGA	GAGGACACGA	GTGGAATGGA	AAGGTCTCAC
5761	TAAGGGACAA	CTTTTAAGGA	GGCGTGTCCT	TGGTAGGGGC	ATCCCTGTTC	ACCAGGTGCC
	ATTCCCTGTT	GAAAATTCCT	CCGCACAGGG	ACCATCCCCG	TAGGGACAAG	TGGTCCACGG
5821	TGTCATCACC	CCACTTGACT	GACATCTACC	CTGGTGACTA	TGGGTTCCCTC	TTGTTTGTAG
	ACAGTAGTGG	GGTGAAGTGA	CTGTAGATGG	GACCACTGAT	ACCCAAGGAG	AACAAACATC
5881	GGAACGGTGG	CTCCAGGTGG	AGGCATCAAT	CTGTTGGGTT	CTGGTTCCTCG	GCTGCCTTTG
	CCTTGCCACC	GAGGTCCACC	TCCGTAGTTA	GACAACCCAA	GACCAAGGGC	CGACGGAAAC
5941	GTTTTGAAAG	TCTCTTCTCT	GTATATTCCT	ACCCTGCATT	TGCTTTGTGT	GGTGCTGATG
	CAAACTTTTC	AGAGAAGAGA	CATATAAGGA	TGGGACGTAA	ACGAAACACA	CCACGACTAC
6001	CTGTGGCAGT	AGGATCTTGG	ATGACTCTCC	ATCAGTCACA	GACTCCCCCT	GTTGCAAAGT
	GACACCGTCA	TCCTAGAACC	TACTGAGAGG	TAGTCAGTGT	CTGAGGGGGA	CAACGTTTCA
6061	GTCAGGCTGA	CTCGACAGTC	ACCGTAAAAT	CTGAGTCAGT	CACACACAGG	CTGTCAGCCA
	CAGTCCGACT	GAGCTGTCAG	TGGCATTTTA	GACTCAGTCA	GTGTGTGTCC	GACAGTCGGT
6121	CGGCTTCCAC	TTGCATGGCT	ATTCTATTTT	CACACGTGAG	TTTCTGTTGC	TGGCTGGCTG
	GCCGAAGGTG	AACGTACCGA	TAAGATAAAA	GTGTGCACTC	AAAGACAACG	ACCGACCGAC
6181	ACTGGCATT	TCTATGCTAA	GTTGAAATCA	GGAGTGTGCC	CAGCAGAGCC	CATCATTCTC
	TGACCGTAAT	AGATACGATT	CAACTTTAGT	CCTCACACGG	GTCGTCTCGG	GTAGTAAGAG
6241	ACTGTCTTTG	AAACAAAGCT	GTACGGTTTG	ATCGATGAAC	GTATTTAAAG	CATTTTCATGC
	TGACAGAAAC	TTTGTTTCGA	CATGCCAAAC	TAGCTACTTG	CATAAATTTT	GTAAAGTACG
6301	AATGACAAAG	TGCTCAGTAG	TGGAAGGCAG	GCTGTGACCA	GTCTGCCTGC	TCCTTACTAT
	TTACTGTTTC	ACGAGTCATC	ACCTTCCGTC	CGACACTGGT	CAGACGGACG	AGGAATGATA
6361	AATTGTGAGG	ATTTGTTACT	GGAACAGTAC	ATGGAGGCCT	GACCTTGTGG	GGGCACAGGG
	TTAACTCTCC	TAAACAATGA	CCTTGTCATG	TACCTCCGGA	CTGGAACACC	CCCGTGTCCC
6421	TGGAACCTTA	GCTGAATATA	GTGTGTGTCT	CAAGAGGAAG	TCAGGGTACT	AGCTCAGTGC
	ACCTTGGAAT	CGACTTATAT	CACACACAGA	GTTCTCCTTC	AGTCCCATGA	TCGAGTCACG
6481	TCAATCTCCA	GGTACTATAT	ATACATTTGC	CCGTTTTATC	TCTAATGTGA	AATAAATCCC
	AGTTAGAGGT	CCATGATATA	TATGTAAACG	GGCAAAATAG	AGATTACACT	TTATTTAGGG
6541	CAAACACTTG	TTTATCGTGT	AGCGTACCTA	AAAGACTATT	CTATTATGGG	TGTCCCCACT
	GTTTGTGAAC	AAATAGCACA	TCGCATGGAT	TTTCTGATAA	GATAATACCC	ACAGGGGTGA
6601	TTCTTGTTTT	GGTCACCCCG	ATCCCCCGGT	CTTCTGCTGT	ATCTAGAACA	GTGACTATAA
	AAGAACCAAA	CCAGTGGGGC	TAGGGGGCCA	GAAGACGACA	TAGATCTTGT	CACTGATATT
6661	ATGATGTATG	GGAATAGTGT	TTCCATATGA	TCTGTTGTCT	GGAGTATATG	CTACATGTTT
	TACTACATAC	CCTTATCACA	AAGGTATACT	AGACAACAGA	CCTCATATAC	GATGTACAAG
6721	ATTTACTGTA	CAAAAACCCA	GTGCAGCTGA	TGATGCAAAG	CAGTCTCTCT	CTGTGTACAG
	TAAATGACAT	GTTTTTGGGT	CACGTCGACT	ACTACGTTTC	GTCAGAGAGA	GACACATGTC
6781	TGCCCCACCT	ATTTAAAAAT	CACGTACAAN	CCCAGAACAC	TGTGAAACAC	TTAACATAAG
	ACGGGGTGGA	TAAATTTTGA	GTGCATGTTN	GGGTCTTGTG	ACACTTTGTG	AATTGTATT
6841	AAACAAACGC	AGCGTCTGGA	TTCTTTCCAA	GGAGAGCAGC	TTTCTCCACA	GGAACACAGT
	TTTGTTTGCG	TCGCAGACCT	AAGAAAGGTT	CCTCTCGTCG	AAAGAGGTGT	CCTTGTGTCA



# Figure 19 (con't)

PDE10A compiled

6901	AACAAAAGAG	GTCCGCCGCC	ATCCACACCC	AGCCAAGACA	CCTCAGAGGC	CATAGGGACA
	TTGTTTTCTC	CAGGCGGCGG	TAGGTGTGGG	TCGGTTCTGT	GGAGTCTCCG	GTATCCCTGT
6961	ACCTCCTTGC	TGGCCAACAC	CTGCTGGAGC	AGGGCACAGG	TCCCAGCAAC	TGATCCTCAG
	TGGAGGAACG	ACCGGTTGTG	GACGACCTCG	TCCCGTGTCC	AGGGTCGTTG	ACTAGGAGTC
7021	TGGATGGGTC	CGCAGTCAAA	GCCTTAATGG	GCTCTCTTTT	GAAGGGGAAA	GAAANNTTTC
	ACCTACCCAG	GCGTCAGTTT	CGGAATTACC	CGAGAGAAAA	CTTCCCCTTT	CTTTNNAAAG
7081	AAGCTTATGA	TATCCAACAT	TATTATAGTT	GATGAGTTAG	TAAATTCCGA	AAAAAAAAGA
	TTCGAATACT	ATAGGTTGTA	ATAATATCAA	CTACTCAATC	ATTTAAGGCT	TTTTTTTTCT
7141	TGATTTTATA	TGTATGACAT	AAAAAAAATC	TTTGTAAGT	GCGCAAGTGC	AATAATTTAA
	ACTAAAATAT	ACATACTGTA	TTTTTTTTTAG	AAACATTTCA	CGCGTTCACG	TTATTAAATT
7201	AGAGGTCTTA	TCTTTGCATT	TATAAATTAT	AAATATTGTA	CATGTGTGTA	ATTTTTCATG
	TCTCCAGAAT	AGAAACGTAA	ATATTTAATA	TTTATAACAT	GTACACACAT	TAAAAAGTAC
7261	TATTCATTTG	CAGTCTTTGT	ATTTAAAAAA	ACTTTACTGT	TATGTTTGTA	TAATAGAACA
	ATAAGTAAAC	GTCAGAAACA	TAAATTTTTT	TGAAATGACA	ATACAAACAT	ATTATCTTGT
7321	TTAATCATTT	ATTATAACTC	AGACAAGGTG	TAAATAAATT	CATAATTCAA	ACAGCCAGTA
	AATTAGTAAA	TAATATTGAG	TCTGTTCCAC	ATTTATTTAA	GTATTAAGTT	TGTCGGTCAT
7381	TATATGCATA	TATGGGTGTT	ACATTGCAAA	AATCTCTATC	TTTGTTCTAT	TCACATGCTT
	ATATACGTAT	ATACCCACAA	TGTAACGTTT	TTAGAGATAG	AAACAAGATA	AGTGACGAA
7441	AAAGAAGTAA	GAAATCTTTT	GTGGATATGT	AATTATACAT	ATAAAGTATA	TATATATGTA
	TTTCTTCATT	CTTTAGAAAA	CACCTATACA	TTAATATGTA	TATTTTCATAT	ATATATACAT
7501	TGATACATGA	AATATATTTA	GAAATGTTCA	TAATTTTAAT	GGATATTCTT	TGGTGTGAAT
	ACTATGTACT	TTATATAAAT	CTTTACAAGT	ATTAAAATTA	CCTATAAGAA	ACCACACTTA
7561	AATTGAATAC	AACATTTTTA	AAATGAAAAA	AAAAAAAAAA	AAAAAAAAAA	AAAAAAAA
	TTAACTTATG	TTGTAAAAAT	TTTACTTTTT	TTTTTTTTTT	TTTTTTTTTT	TTTTTTTT